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ERCB ST90-18



Alberta's Reserves of crude oil, oil sands, gas, natural gas liquids, and sulphur

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Alberta's Reserves of crude oil, oil sands, gas, natural gas liquids, and sulphur

December 1989

**ENERGY RESOURCES CONSERVATION BOARD
RESERVE REPORT SERIES ERCB-18**

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ISSN 0706-3199

Twenty-ninth edition

Published by:

Energy Resources Conservation Board
640 Fifth Avenue SW
Calgary, Alberta
T2P 3G4

Telephone (403) 297-8311

Telex 03-821717

Price: \$250

HIGHLIGHTS

RESERVES	1989	1988	Change
Conventional crude oil			
Remaining established (10^6 m^3)	561	593	– 32
Initial established (10^6 m^3)	2 253	2 232	+ 21
Crude bitumen (developed surface-mineable projects)			
Remaining established (10^6 m^3)	482	497	– 15
Initial established (10^6 m^3)	644	644	–
Crude bitumen (developed in situ projects)			
Remaining established (10^6 m^3)	60.2	69.5	– 9.3
Initial established (10^6 m^3)	97.9	99.0	– 1.1
Natural gas ^a			
Remaining established			
Volume (10^9 m^3)	1 650	1 628	+ 22
Energy (10^{18} J)	63.5	62.6	+ 0.90
Initial established			
Volume (10^9 m^3)	3 199	3 091	+108
Energy (10^{18} J)	123.16	118.88	+ 4.28
PRODUCTION			
Conventional crude oil (10^6 m^3)	53.8	57.2	– 3.4
Crude bitumen (surface-mineable) (10^6 m^3)	15.0	14.0	+ 1.0
Crude bitumen (in situ) (10^6 m^3)	8.2	7.4	+ 0.8
Natural gas ^b			
Volumes (10^9 m^3)	85.8	88.6	– 2.8

^a Volumes are on an actual heating value basis.

^b The official net production of natural gas is reported in ERCB ST 90-17 (see Chapter 4, Section 4.7 of this report).

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
PUBLISHED WEEKLY
CHICAGO, ILL., MAY 1, 1935

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The following table shows the results of the analysis of variance for the different groups of subjects. The results are presented in the form of a table. The first column shows the group of subjects, the second column shows the mean score, the third column shows the standard deviation, and the fourth column shows the t-value. The results are as follows:

Group 1: Mean = 10.5, SD = 2.5, t = 1.2

Group	Mean	SD	t
Group 1	10.5	2.5	1.2
Group 2	11.5	2.0	1.5
Group 3	12.5	1.5	1.8
Group 4	13.5	1.0	2.1

The results of the analysis of variance are as follows:

1 TERMINOLOGY

1.1 SI UNITS

Alberta's Reserves of Crude Oil, Oil Sands, Gas, Natural Gas Liquids, and Sulphur are presented in the International System of Units (SI). The provincial totals and a few other major totals are shown in both SI units and the imperial equivalents in the various tables.

Conversion factors used in calculating the imperial equivalents are listed below:

1 cubic metre of gas (101.325 kilopascals and 15° Celsius)	= 35.493 73 cubic feet of gas (14.65 psia and 60° Fahrenheit)
1 cubic metre of ethane (equilibrium pressure and 15° Celsius)	= 6.33 Canadian barrels of ethane (equilibrium pressure and 60° Fahrenheit)
1 cubic metre of propane (equilibrium pressure and 15° Celsius)	= 6.300 0 Canadian barrels of propane (equilibrium pressure and 60° Fahrenheit)
1 cubic metre of butanes (equilibrium pressure and 15° Celsius)	= 6.296 8 Canadian barrels of butanes (equilibrium pressure and 60° Fahrenheit)
1 cubic metre of oil or pentanes plus (equilibrium pressure and 15° Celsius)	= 6.292 9 Canadian barrels of oil or pentanes plus (equilibrium pressure and 60° Fahrenheit)
1 cubic metre of water (equilibrium pressure and 15° Celsius)	= 6.290 1 Canadian barrels of water (equilibrium pressure and 60° Fahrenheit)
1 tonne	= 0.984 206 4 (U.K.) long tons (2240 pounds)
1 tonne	= 1.102 311 short tons (2000 pounds)
1 kilojoule	= 0.948 213 3 British thermal units (Btu as defined in the federal Gas Inspection Act (60°-61° Fahrenheit))

1.2 RESERVES TERMINOLOGY

The reserves terminology used in this report applies to all fossil energy resources (including coal) and is as follows:

- 1 **Initial Volume in Place:** The gross volume of crude oil, crude bitumen, or raw natural gas calculated or interpreted to exist in a reservoir before any volume has been produced.
- 2 **Established Reserves:** Those reserves recoverable under current technology and present and anticipated economic conditions, specifically proved by drilling, testing, or production; plus that judgement portion of contiguous recoverable reserves that are interpreted from geological, geophysical, or similar information, with reasonable certainty to exist.
- 3 **Initial Established Reserves:** Established reserves prior to the deduction of any production.
- 4 **Remaining Established Reserves:** Initial established reserves less cumulative production.
- 5 **Ultimate Potential:** An estimate of the initial established reserves that will have been developed in an area by the time all exploratory and development activity has ceased, having regard for the geological prospects of that area and anticipated technology and economic conditions.

Ultimate potential includes cumulative production, remaining established reserves, and future additions through extensions and revisions to existing pools and the discovery of new pools. Ultimate potential can be expressed by the following simple formula:

Ultimate potential = initial established reserves
 + additions to existing pools
 + future discoveries.

The above terminology and definitions, which were recommended by the Inter-Provincial Advisory Committee on Energy, have been adopted by the Board.

1.3 DEFINITIONS OF OTHER TERMS

Area	The area used to determine the bulk rock volume of the oil-, crude bitumen-, or gas-bearing reservoir, usually the area of the zero isopach or the assigned area of a pool or deposit.
Butanes	In addition to its normal scientific meaning, a mixture mainly of butanes which ordinarily may contain some propane or pentanes plus. (Oil and Gas Conservation Act, section 1(1)(c.1))
Compressibility Factor	A correction factor for non-ideal gas determined for gas from a pool at its initial reservoir pressure and temperature and, where necessary, including factors to correct for acid gases.
Condensate	A mixture mainly of pentanes and heavier hydrocarbons that may be contaminated with sulphur compounds, that is recovered or recoverable through a well from an underground reservoir and that may be gaseous in its virgin reservoir state but is liquid at the conditions under which its volume is measured or estimated. (Oil and Gas Conservation Act, section 1(1)(d.1))
Crude Bitumen	A naturally occurring viscous mixture, mainly of hydrocarbons heavier than pentane, that may contain sulphur compounds and that, in its naturally occurring viscous state, will not flow to a well. (Oil Sands Conservation Act, section 1(1)(c))
Crude Oil (Conventional)	A mixture mainly of pentanes and heavier hydrocarbons that may be contaminated with sulphur compounds, that is recovered or is recoverable at a well from an underground reservoir, and that is liquid at the conditions under which its volume is measured or estimated, and includes all other hydrocarbon mixtures so recovered or recoverable except raw gas or condensate. (Oil and Gas Conservation Act, section 1(1)(f.1))
Crude Oil (Heavy)	Crude oil will be deemed to be heavy crude oil if it has a density of 900 kg/m ³ or more, but the Board, in a particular case, may classify crude oil otherwise than in accordance with this criterion, having regard to its market utilization and purchasers' classification. (Oil and Gas Conservation Regulations 10.030)
Crude Oil (Light-Medium)	Crude oil will be deemed to be light-medium crude oil if it has a density of less than 900 kg/m ³ , but the Board, in a particular case, may classify crude oil otherwise than in accordance with this criterion, having regard to its market utilization and purchasers' classification. The light-medium classification is synonymous with the light classification referred to in ERCB Report 85-A, Alberta Oil Supply, 1985-2010.
Crude Oil (Synthetic)	A mixture, mainly of pentanes and heavier hydrocarbons, that may contain sulphur compounds, that is derived from crude bitumen and that is liquid at the conditions under which its volume is measured or estimated, and includes all other hydrocarbon mixtures so derived. (Oil and Gas Conservation Act, section 1(1)(t.1))
Density	The mass or amount of matter per unit volume.
Density, Relative (Raw Gas)	The density, relative to air, of raw gas upon discovery, determined by an analysis of a gas sample representative of a pool under atmospheric conditions.
Discovery Year	The year in which the well which discovered the oil or gas pool finished drilling.

Ethane	<p>In addition to its normal scientific meaning, a mixture mainly of ethane which ordinarily may contain some methane or propane.</p> <p>(Oil and Gas Conservation Act, section 1(1)(h.1))</p>
Gas	<p>Raw gas or marketable gas or any constituent of raw gas, condensate, crude bitumen, or crude oil that is recovered in processing and that is gaseous at the conditions under which its volume is measured or estimated.</p> <p>(Oil and Gas Conservation Act, section 1(1)(j.1))</p>
Gas (Associated)	<p>Gas in a free state in communication in a reservoir with crude oil, under initial reservoir conditions.</p>
Gas (Marketable)	<p>A mixture mainly of methane originating from raw gas, if necessary through the processing of the raw gas for the removal or partial removal of some constituents, and which meets specifications for use as a domestic, commercial, or industrial fuel or as an industrial raw material.</p> <p>(Oil and Gas Conservation Act, section 1(1)(m))</p>
Gas (Marketable at 101.325 kPa and 15°C)	<p>The equivalent volume of marketable gas at standard conditions.</p>
Gas (Non-associated)	<p>Gas that is not in communication in a reservoir with an accumulation of liquid hydrocarbons at initial reservoir conditions.</p>
Gas (Raw)	<p>A mixture containing methane, other paraffinic hydrocarbons, nitrogen, carbon dioxide, hydrogen sulphide, helium, and minor impurities, or some of them, which is recovered or is recoverable at a well from an underground reservoir and which is gaseous at the conditions under which its volume is measured or estimated.</p> <p>(Oil and Gas Conservation Act, section 1(1)(s.1))</p>
Gas (Solution)	<p>Gas that is dissolved in crude oil under reservoir conditions and evolves as a result of pressure and temperature changes.</p>
Gas-Oil Ratio (Initial Solution)	<p>The volume of gas (in cubic metres, measured under standard conditions) contained in one stock-tank cubic metre of oil under initial reservoir conditions.</p>
Good Production Practice (GPP)	<p>Production of crude oil or raw gas at a rate</p> <ul style="list-style-type: none"> (i) not governed by a base allowable, but (ii) limited to what can be produced without adversely and significantly affecting conservation, the prevention of waste, or the opportunity of each owner in the pool to obtain his share of production. <p>(Oil and Gas Conservation Regulation 1.020(2)9)</p> <p>This practice is authorized by the Board either to improve the economics of production from a pool and thus defer its abandonment, or to avoid unnecessary administrative expense associated with regulation or production restrictions where this serves little or no purpose.</p>
Gross Heating Value (of dry gas)	<p>The heat liberated by burning moisture-free gas at standard conditions and condensing the water vapour to a liquid state.</p>
Helium	<p>In addition to its normal scientific meaning, a mixture mainly of helium which ordinarily may contain some nitrogen and methane.</p> <p>(Oil and Gas Conservation Act, section 1(1)(k))</p>
Maximum Rate Limitation (MRL)	<p>The maximum rate of production prescribed for the avoidance of waste, after application of any applicable penalty factor.</p>

Mean Formational Depth	The approximate average depth below kelly bushing of the mid-point of an oil or gas productive zone for the wells in a pool.
Methane	In addition to its normal scientific meaning, a mixture mainly of methane which ordinarily may contain some ethane, nitrogen, helium, or carbon dioxide. (Oil and Gas Conservation Act, section 1(1)(m.1))
Natural Gas Liquids	Propane, butanes, or pentanes plus, or a combination of them, obtained from the processing of raw gas or condensate. (Oil and Gas Conservation Act, section 1(1)(n))
Oil	Condensate or crude oil, or a constituent of raw gas, condensate, or crude oil that is recovered in processing, that is liquid at the conditions under which its volume is measured or estimated. (Oil and Gas Conservation Act, section 1(1)(n.1))
Oil Sands	(i) sands and other rock materials containing crude bitumen, (ii) the crude bitumen contained in those sands and other rock materials, and (iii) any other mineral substances, other than natural gas, in association with that crude bitumen or those sands and other rock materials referred to in subclauses (i) and (ii). (Oil Sands Conservation Act, section 1(1)(n))
Oil Sands Deposit	A natural reservoir containing or appearing to contain an accumulation of oil sands separated or appearing to be separated from any other such accumulation. (Oil and Gas Conservation Act, section 1(1)(o.1))
Pay Thickness (Average)	The bulk rock volume of a reservoir of oil, oil sands, or gas, divided by its area.
Pentanes Plus	A mixture mainly of pentanes and heavier hydrocarbons which ordinarily may contain some butanes and which is obtained from the processing of raw gas, condensate, or crude oil. (Oil and Gas Conservation Act, section 1(1)(p))
Pool	A natural underground reservoir containing or appearing to contain an accumulation of oil or gas or both separated or appearing to be separated from any other such accumulation. (Oil and Gas Conservation Act, section 1(1)(q))
Porosity	The effective pore space of the rock volume determined from core analysis and well log data, measured as a fraction of rock volume.
Pressure (Initial)	The reservoir pressure at the reference elevation of a pool upon discovery.
Propane	In addition to its normal scientific meaning, a mixture mainly of propane which ordinarily may contain some ethane or butanes. (Oil and Gas Conservation Act, section 1(1)(s))
Recovery (Enhanced)	Recovery of oil, gas, or natural gas liquids by the implementation of an artificially improved depletion process over a part or the whole of a pool, measured as a volume or fraction; the additional oil, gas, or natural gas liquids so recovered. (Oil and Gas Conservation Act, section 1(1)(h))
Recovery (Pool)	In gas pools, the fraction of the in-place reserves of gas expected to be recovered under the subsisting recovery mechanism.
Recovery (Primary)	Recovery of oil by natural depletion processes only, measured as a volume so recovered or a fraction of the in-place oil.
Saturation (Gas)	The fraction of pore space in the reservoir rock occupied by gas upon discovery.

Saturation (Water)	The fraction of pore space in the reservoir rock occupied by water upon discovery.
Shrinkage Factor	The volume occupied by one cubic metre of oil from a pool, measured at standard conditions after flash gas liberation consistent with the surface separation process, divided by the volume occupied by the same oil and gas at the pressure and temperature of a pool upon discovery.
Solvent	A suitable mixture of hydrocarbons ranging from methane to pentanes plus, but consisting largely of methane, ethane, propane, and butanes, for use in enhanced-recovery operations.
Surface Loss	A summation of the fractions of recoverable gas that is removed as acid gas and liquid hydrocarbons, used as lease or plant fuel, or flared.
Temperature	The initial reservoir temperature upon discovery at the reference elevation of a pool.
Zone	Any stratum or any sequence of strata that is designated by the Board as a zone. (Oil and Gas Conservation Act, section 1(1)(z))

1.4 STANDARD CONDITIONS OF GAS MEASUREMENT

Volumes of gas are given as at a standard pressure and temperature of 101.325 kPa and 15°C, respectively.

1.5 SYMBOLS

The symbols used in tables throughout this report have the following meanings:

SI

°C	degree Celsius	M	mega
d	day	m	metre
ha	hectare	mol	mole
J	joule	T	tera
kg	kilogram	t	tonne
kPa	kilopascal		

Imperial

bbl	barrel	psia	pounds per square inch absolute
Btu	British thermal unit	psig	pounds per square inch gauge
cf	cubic foot	stb	stock-tank barrel
d	day		
°F	degree Fahrenheit		

1.6 ABBREVIATIONS

General Report

GIP	gas in place
GPP	good production practice
MER	maximum efficient rate
MRL	maximum rate limitation
RF	recovery factor
RGE	range
STP	standard temperature and pressure
TWP	township
WM	west of a certain meridian

Computer Printout

General abbreviations, found chiefly in the computer printout, have the following meanings:

ABAND	abandoned
ASSOC	associated gas
ADMIN 2	Administrative Area No. 2
BELL	Belloy
BER	beyond economic reach
BLAIR	Blairmore
BSKY	Bluesky
BNFF	Banff
BOW ISL or BI	Bow Island
BR	Belly River
BSL COLO	Basal Colorado
BSL MANN or BMNV	Basal Mannville
BSL QTZ	Basal Quartz
CARD	Cardium
CDN	Cadomin
CLWTR	Clearwater
CLY	Colony
CMRS	Camrose
COMP	compressibility
DBLT	Debolt
DETR	Detrital
DISC YEAR	discovery year
ELK	Elkton
ELRSL	Ellerslie
ERSO	enhanced-recovery scheme is in operation but no additional established reserves are attributed
FALH	Falher
FRAC	fraction
GEN PETE	General Petroleum
GETH	Gething
GLAUC	Glaucconitic
GOR	gas-oil ratio
GRD RAP	Grand Rapids
GROSS HEAT VALUE	gross heating value
ha	hectare
INJ	injected
I.S.	integrated scheme
JUR or J	Jurassic
KEY	Keystone
KISK	Kiskatinaw
KR	Keg River
L	lower
LED	Leduc
LLOYD	Lloydminster
LF	load factor
LMNV or LM	Lower Mannville
LOC EX PROJECT	local experimental project
LOC U	local utility
M	middle
MANN or MN	Mannville
MCM	McMurray
MED HAT	Medicine Hat
MILK RIV	Milk River
MOP	maximum operating pressure
MSKG	Muskeg

NGL	natural gas liquids
NIS	Nisku
NO.	number
NON-ASSOC	non-associated gas
NORD	Nordeg
OST	Ostracod
PALL	Palliser
PEK	Pekisko
RF	recovery factor
SA	strike area
SATN	saturation
SD	sandstone
SE ALTA GAS SYS (MU)	Southeastern Alberta Gas System—commingled
SG	gas saturation
SHUN	Shunda
SL	surface loss
SOLN	solution gas
SPKY	Sparky
ST. ED	St. Edouard
SULPT	Sulphur Point
SUSP	suspended
SW	water saturation
TEMP	temperature
TVD	true vertical depth
U	upper
UIRE	Upper Ireton
UMNV or UM	Upper Mannville
VIK or VK	Viking
VOL	volume
WAB	Wabamun
WBSK	Wabiskaw
WTR DISP	water disposal
WTR INJ	water injection
1WS	First White Specks
2WS	Second White Specks

Company Names

The following is a list of abbreviations which are used for certain company names:

AEC	Alberta Energy Co. Ltd.
A&S	Alberta and Southern Gas Co. Ltd.
AMOCO	Amoco Canada Petroleum Company, Ltd.
ATCOR	ATCOR Ltd.
BP	BP Resources Canada Limited
BVI	Bow Valley Industries Ltd.
CANOXY	Canadian Occidental Petroleum Ltd.
CANST	CanStates Energy
CDNHUNT	Canadian Hunter Exploration Ltd.
CEL	Canterra Energy Ltd.
CMG	Canadian-Montana Gas Company Limited
CNG	Consolidated Natural Gas Limited
CNWE	Canada Northwest Energy Ltd.
CTYMEDH	City of Medicine Hat
CWNGNUL	Canadian Western Natural Gas Company Limited and Northwestern Utilities Limited

DEKALB	DEKALB Energy Canada Ltd.
DEVNIC	Devnic Energy Inc.
DIRECT	Direct Energy Marketing Ltd.
EMI	EMI Pawtucket Inc.
ESSO	Esso Resources Canada Limited
GULF	Gulf Canada Resources Limited
HOME	Home Oil Company Limited
ICG	ICG Resources Ltd.
KANGGAZ	KannGaz Producers Ltd.
METHON	Methon Gas Marketing Ltd.
MIP	Many Islands Pipelines Limited
NORCEN	Norcen Energy Resources Limited
NRTHRGE	Northridge Petroleum Marketing Inc.
NRTHSTR	Northstar Energy Corporation
OMV	OMV (Canada) Ltd.
PANALTA	Pan-Alberta Gas Ltd.
PARAMNT	Paramount Resources Ltd.
PCI	Petro-Canada Inc.
POCO	Poco Petroleums Limited
PROGAS	ProGas Limited
PSR	PSR Gas Ventures Inc.
PWGE	Plains-Western Gas & Electric Co. Ltd.
RENENER	Renaissance Energy Ltd.
SCEPTRE	Sceptre Resources Ltd.
SHELL	Shell Canada Ltd.
SIMPLLOT	Simplot Canada Limited
SOQUIP	Societe quebecoise d'initiatives petrolieres
TCPL	TransCanada PipeLines Limited
TRITON	Triton Canada Resources Ltd.
UNIGAS	Unigas Corporation
UNOCAL	Unocal Canada Limited
VECTOR	Vector Energy Inc.
WCST	Westcoast Energy Inc.

2 RESERVES OF CONVENTIONAL CRUDE OIL

The Board estimates the remaining established reserves of conventional crude oil in Alberta to be 560 million cubic metres at year-end 1989. This is a net decrease from year-end 1988 of 32 million cubic metres as a result of all reserve adjustments less production that occurred during 1989. The initial established reserves attributed to 1989 pool discoveries totalled 17 million cubic metres, which is a 16 per cent decrease from 1988.

The changes in reserves for light-medium and heavy crude oil during 1989 are shown below:

	1989	1988	Change
	10 ⁶ m ³		
Initial Established Reserves ^a			
Light-Medium	2 086.1	2 075.2	+11.0
Heavy	167.0	156.6	+10.4
Total	2 253.1	2 231.7	+21.4
	(14 178) ^b	(14 044) ^b	
Cumulative Production			
Light-Medium	1 580.1	1 535.3	+44.8
Heavy	112.5	103.5	+ 9.0
Total	1 692.6	1 638.8	+53.8
Remaining Established Reserves ^a			
Light-Medium	506.0	539.8	-33.9
Heavy	54.5	53.1	+ 1.4
Total	560.5	592.9	-32.5
	(3 527) ^b	(3 731) ^b	

^a Discrepancies are due to rounding.

^b Imperial equivalent in millions of stock-tank barrels.

The net increase in initial established reserves during 1989 of 21.4 million cubic metres comprised 34.1 million cubic metres added from discoveries/additions (new pools, new waterflood projects, and additions to existing primary pools and waterflood projects), 3.6 million cubic metres added because of tertiary mechanisms (new tertiary projects and additions to existing tertiary projects), and a 16.3-million-cubic-metre-reduction as a result of the reassessment of reserves in existing primary and enhanced recovery pools.

Listed below are those light-medium pools for which a major change in initial established reserves was made during 1989.

Pool	Initial Established Reserves		Main Reason for Change
	1989	Change	
	10 ³ m ³		
Ante Creek Beaverhill Lake	2 850.0	— 710.0	Reassessment of recovery factor
Carrot Creek Cardium F	1 452.0	— 453.0	Rescission of Project No. 3
Cecil Charlie Lake A	2 104.0	+ 493.4	Pool development
Joarcam Viking	19 030.0	+ 472.0	Enhanced recovery recognition
Joffre D-3 B	1 638.0	+ 798.0	Enhanced recovery recognition
Kaybob Beaverhill Lake A	19 810.0	+ 990.0	Enhanced recovery recognition
Larne Keg River LL	64.1	— 448.0	Reassessment of initial volume in place and recovery factor
Pembina Keystone Belly River U	2 781.0	+ 464.0	Enhanced recovery recognition
Provost Lloydminster O	1 165.0	+ 458.0	Reassessment of initial volume in place and recovery factor
Rainbow South Keg River B	4 238.0	— 972.0	Reassessment of recovery factor
Rainbow South Keg River N	500.0	— 1 250.0	Reassessment of recovery factor
Swan Hills Beaverhill Lake C	33 090.0	+ 460.0	Reassessment of recovery factor
Worsley Triassic D	1 854.0	+ 1 854.0	New pool
Zama Keg River P5P	93.1	— 653.0	Reassessment of initial volume in place and recovery factor
Zama Keg River Q5Q	41.1	— 451.0	Reassessment of initial volume in place and recovery factor

Listed below are those heavy pools for which a major change in initial established reserves was made during 1989.

Pool	Initial Established Reserves		Main Reason for Change
	1989	Change	
	10 ³ m ³		
Chin Coulee Basal Mannville A	1 108.0	+ 217.0	Reassessment of initial volume in place and recovery factor
Grand Forks Sawtooth L	612.0	+ 229.0	Reassessment of recovery factor
Hayter Dina Q	462.0	+ 408.0	Pool development and reassessment of initial volume in place
Lloydminster Sparky K	1 272.0	+ 424.0	Reassessment of recovery factor
Provost Dina C	736.0	+ 313.0	Reassessment of recovery factor
Provost Dina PPP	219.0	+ 219.0	New pool
Ronalane Sawtooth B	1 451.0	+ 1 223.0	Pool development
Sibbald Upper Mannville C	1 290.0	+ 645.0	Reassessment of initial volume in place and recovery factor
Viking-Kinsella Sparky F	1 425.0	+ 1 158.0	Enhanced recovery recognition
Wainwright Wainwright & Sparky A	13 840.0	+ 470.0	Enhanced recovery recognition

The Board's estimates of reserves for 1989 are summarized by crude-oil type and recovery mechanism in Table 2-1, by geological period and crude-oil type in Table 2-2, and by geological formation in Table 2-3. These historical data assist in estimating future crude-oil potential as discussed in Chapter 8.

Table 2-4, subdivided into light-medium and heavy crude oil, lists the reserves and reservoir factors to year-end 1989 for each designated non-confidential crude-oil pool in Alberta. Reserve totals for undefined and confidential pools are shown separately at the end of each section.

The map included in the back pocket of this report will assist the reader interested in the geographic distribution of reserves and in locating the fields and pools listed in Table 2-4. The approximate location of each field is shown immediately following the field name in Table 2-4.

**TABLE 2-1 SUMMARY OF RESERVES OF CONVENTIONAL CRUDE OIL
ATTRIBUTABLE TO VARIOUS RECOVERY MECHANISMS
As at 31 December 1989**

Crude-Oil Type and Recovery Mechanism	1 Initial Volume in Place 10 ⁶ m ³	2 Initial Primary Established Reserves	3 Initial Enhanced Established Reserves	4 Initial Total Established Reserves	5 Average Primary Recovery fraction	6 Average Enhanced Recovery	7 Average Total Recovery
Light-Medium							
Primary Depletion	3 387.2	749.2	0	749.2	0.22	0	0.22
Solvent Flood	811.0	219.4	255.0	474.4	0.27	0.31	0.58
Waterflood	2 683.0	452.3	377.3	829.6	0.17	0.14	0.31
Gas Flood	71.4	29.2	3.8	33.0	0.41	0.05	0.46
Heavy							
Primary Depletion	1 153.7	87.8	0	87.8	0.08	0	0.08
Waterflood	268.0	24.5	54.7	79.2	0.09	0.20	0.30
Total ^a	<u>8 374.3</u> (52 699) ^c	<u>1 562.4</u> (9 832) ^c	<u>690.7</u> (4 347) ^c	<u>2 253.1</u> (14 178) ^c	<u>0.19^b</u>	<u>0.08^b</u>	<u>0.27^b</u>

^a Discrepancies are due to rounding.

^b The estimated recovery for all pools in the province, if depleted under their natural depletion mechanism, would be 19 per cent of initial volume in place. Implementation of enhanced-recovery schemes in some pools is expected to result in an increase in the average recovery factor for all pools in Alberta to 27 per cent.

^c Imperial equivalent in millions of stock-tank barrels.

**TABLE 2-2 DISTRIBUTION OF RESERVES OF CONVENTIONAL CRUDE OIL
BY GEOLOGICAL PERIOD AND CRUDE-OIL TYPE
As at 31 December 1989**

Geological Period	1	2	3	4	5	6	7	8	9	10	11	12
	Initial Volume In Place			Initial Established Reserves			Remaining Established Reserves			Average Recovery		
	Light-Medium Density	Heavy Density	Total	Light-Medium Density	Heavy Density	Total	Light-Medium Density	Heavy Density	Total	Light-Medium Density	Heavy Density	Total
	10 ⁶ m ³									fraction		
Cretaceous												
Upper	1 962.8	0.1	1 962.9	359.0	0	359.0	121.3	0	121.3	0.18	0	0.18
Lower	835.4	1 245.5	2 080.9	130.0	141.0	271.0	42.1	42.6	84.7	0.16	0.11	0.13
Jurassic	90.5	66.3	156.8	19.2	16.6	35.8	8.0	6.7	14.7	0.21	0.25	0.23
Triassic	221.8	0	221.8	52.9	0	52.9	27.0	0	27.0	0.24	0	0.24
Permian	11.2	0	11.2	3.9	0	3.9	1.1	0	1.1	0.35	0	0.35
Mississippian	554.4	59.3	613.7	83.4	6.1	89.5	15.6	2.7	18.3	0.15	0.10	0.15
Devonian												
Upper	2 280.6	18.6	2 299.2	1 083.8	1.5	1 085.3	168.0	0.9	168.9	0.48	0.08	0.47
Middle	897.1	0	897.1	342.2	0	342.2	110.7	0	110.7	0.38	0	0.38
Other	99.3	31.9	130.9	12.9	1.7	14.6	12.0	1.5	13.5	0.13	0.06	0.11
Total ^a	6 952.7	1 421.7	8 374.3	2 086.1	167.0	2 253.1	506.0	54.5	560.5	0.30	0.12	0.27
	(43 752) ^b	(8 946) ^b	(52 699) ^b	(13 128) ^b	(1 051) ^b	(14 178) ^b	(3 184) ^b	(343) ^b	(3 527) ^b			

^a Discrepancies are due to rounding.

^b Imperial equivalent in millions of stock-tank barrels.

TABLE 2-3 GEOLOGICAL DISTRIBUTION OF RESERVES OF CONVENTIONAL CRUDE OIL
As at 31 December 1989

Geological Distribution	1	2	3	4	5	6
	Initial Volume In Place	Initial Established Reserves	Remaining Established Reserves	Initial Volume in Place	Initial Established Reserves	Remaining Established Reserves
	10 ⁶ m ³			Percentage of total		
Upper Cretaceous						
Belly River	220.5	35.1	17.5	2.6	1.6	3.1
Cardium	1 644.0	312.5	96.0	20.0	13.9	17.1
Second White Specks	22.5	1.7	1.0	0.3	0.1	0.2
Doe Creek	51.6	7.7	5.8	0.6	0.3	1.0
Dunvegan	17.9	1.3	0.6	0.2	0.1	0.1
Other	6.4	0.7	0.4	0.1	0	0.1
Subtotal	1 962.9	359.0	121.3	23.8	16.0	21.6
Lower Cretaceous						
Viking	293.9	60.1	15.4	3.5	2.7	2.7
Basal Colorado	12.1	2.7	0.9	0.1	0.1	0.2
Upper Mannville	1 103.9	113.6	42.5	13.2	5.0	7.6
Lower Mannville	667.8	93.1	25.8	8.0	4.1	4.6
Other	3.2	0.3	0.1	0	0	0
Subtotal	2 080.9	270.9	84.7	24.8	11.9	15.1
Jurassic						
Sawtooth	58.6	15.3	6.3	0.7	0.7	1.1
Rock Creek	18.4	3.6	5.8	0.2	0.1	1.0
Nordegg	65.5	15.1	5.6	0.8	0.6	1.0
Other	14.3	1.8	0.5	0.2	0.1	0.1
Subtotal	156.8	35.8	18.2	1.8	1.5	3.2
Triassic						
Charlie Lake	44.5	7.5	5.8	0.5	0.3	1.0
Boundary	44.2	9.8	4.7	0.5	0.4	0.8
Halfway	69.5	13.0	8.7	0.8	0.6	1.6
Montney	54.0	22.0	7.4	0.6	1.0	1.3
Other	9.6	0.6	0.4	0.1	0	0.1
Subtotal	221.8	52.9	27.0	2.4	2.2	4.8
Permian-Belloy	11.2	3.9	1.1	0.1	0.2	0.3
Mississippian						
Rundle	417.1	65.0	7.6	5.0	2.9	1.4
Pekisko	76.1	9.3	2.8	0.9	0.4	0.5
Banff	98.3	12.7	7.1	1.2	0.6	1.3
Other	22.2	2.5	0.8	0.3	0.1	0.1
Subtotal	613.7	89.5	18.3	7.4	4.0	3.3

TABLE 2-3 (continued)

Geological Distribution	1	2	3	4	5	6
	Initial Volume In Place	Initial Established Reserves	Remaining Established Reserves	Initial Volume in Place	Initial Established Reserves	Remaining Established Reserves
	10 ⁶ m ³			Percentage of total		
Upper Devonian						
Wabamun	52.2	8.1	5.4	0.6	0.4	1.0
Nisku	353.3	173.0	32.6	4.2	7.7	5.8
Leduc	816.2	490.5	35.5	9.7	21.8	6.3
Beaverhill Lake	945.9	392.4	83.4	11.3	17.4	14.9
Slave Point	108.2	17.0	10.0	1.3	0.8	1.8
Other	23.4	3.4	2.0	0.3	0.2	0.4
Subtotal	2 299.2	1 084.4	168.9	27.4	48.3	30.2
Middle Devonian						
Gilwood	266.6	127.3	34.7	3.2	5.7	6.2
Sulphur Point	7.0	0.8	0.2	0.1	0	0
Muskeg	56.1	8.4	4.7	0.7	0.4	0.8
Keg River	470.4	179.4	61.2	5.6	8.0	10.9
Keg River ss	40.0	13.7	4.0	0.5	0.6	0.7
Granite Wash	56.9	12.6	5.9	0.7	0.6	1.1
Other	0.1	0	0	0	0	0
Subtotal	897.1	342.2	110.7	10.7	15.3	19.7
Undefined and Confidential	130.9	14.6	13.5	1.6	0.6	2.4
Total ^a	8 374.3	2 253.1	560.5	100.0	100.0	100.0
	(52 699) ^b	(14 178) ^b	(3 527) ^b			

^a Discrepancies in totals and subtotals are due to rounding.

^b Imperial equivalent in millions of stock-tank barrels.



Reserves of Conventional Crude Oil and Basic Data

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
ACHESON 053-26W4								
BLAIRMORE A	879.0	0.14		123.0		123.0	119.1	3.9
BLAIRMORE B	318.0	0.13		41.3		41.3	4.8	36.5
BLAIRMORE C	375.0	0.15		56.3		56.3	46.6	9.7
BLAIRMORE F	370.0	0.25		92.5		92.5	71.0	21.5
BLAIRMORE J	304.0	0.20		60.8		60.8	44.8	16.0
BLAIRMORE K	1 250.0	0.10		125.0		125.0	79.2	45.8
BLAIRMORE L	289.0	<0.04		11.6		11.6	11.6	
BLAIRMORE P	183.0	<0.01		0.1		0.1	0.1	
BLAIRMORE S	139.0	<0.04		5.0		5.0	5.0	
BLAIRMORE V	198.0	0.12		23.8		23.8	13.7	10.1
BLAIRMORE W	79.8	<0.01		0.1		0.1	0.1	
BLAIRMORE X	99.8	0.10		10.0		10.0	8.2	1.8
BLAIRMORE Z	42.5	0.10		4.3		4.3	0.5	3.8
BLAIRMORE AA	78.3	0.05		3.9		3.9	2.2	1.7
BLAIRMORE BB	68.0	0.15		10.2		10.2	5.2	5.0
BLAIRMORE CC	27.4	0.10		2.7		2.7	0.5	2.2
BLAIRMORE D & I	2 319.0	0.15		348.0		348.0	163.5	184.5
ELLERSLIE A	343.0	0.03		10.3		10.3	6.0	4.3
ELLERSLIE B	387.0	0.03		11.6		11.6	4.3	7.3
ELLERSLIE C	406.0	<0.01		1.1		1.1	1.1	
DETRITAL A	36.8	<0.26		8.3		8.3	8.3	
DETRITAL C	62.2	0.10		6.2		6.2	0.3	5.9
DETRITAL D	235.0	0.03		7.1		7.1	0.5	6.6
WABAMUN A	917.0	<0.01		3.7		3.7	3.7	
D-2 A	775.0	0.58		450.0		450.0	428.9	21.1
D-2 B	50.2	<0.39		19.3		19.3	19.3	
D-2 C	14.7	<0.01		0.1		0.1	0.1	
D-3 A TOTAL	29 650.0			16 010.0	4 850.0	20 860.0	19 954.7	905.3
SOLVENT FLOOD AREA	3 840.0	0.54	0.31	2 074.0	1 190.0	3 264.0		
WATER FLOOD AREA	25 810.0	0.54	0.14	13 940.0	3 660.0	17 600.0		
ACHESON EAST 052-25W4								
BLAIRMORE A	500.0	0.25		125.0		125.0	122.3	2.7
BLAIRMORE B	5 970.0	0.15		896.0		896.0	615.2	280.8
BLAIRMORE C	253.0	0.15		38.0		38.0	24.8	13.2
BLAIRMORE D	572.0	0.25		143.0		143.0	99.4	43.6
BLAIRMORE E	226.0	0.25		56.6		56.6	22.7	33.9
GLAUCONITIC A	67.6	<0.01		0.3		0.3	0.3	
BLAIRMORE F & GLAUCONITIC B	683.0	0.07		47.8		47.8	15.6	32.2
DETRITAL A	188.0	<0.03		4.3		4.3	4.3	
ADAMS 071-08W5								
GILWOOD A	68.4	0.10		6.8		6.8	6.6	0.2
ADEN 001-09W4								
BOW ISLAND B	221.0	<0.01		1.1		1.1	1.1	
AERIAL 029-18W4								
VIKING A	275.0	<0.01		0.6		0.6	0.6	
MANNVILLE TOTAL	1 480.0			177.0	131.0	308.0	246.8	61.2
PRIMARY AREA	286.0	0.12		34.3		34.3		
GAS FLOOD AREA	1 190.0	0.12	0.11	143.0	131.0	274.0		
MANNVILLE B	167.0	<0.01		0.3		0.3	0.3	
MANNVILLE C	618.0	0.01		6.2		6.2	1.4	4.8
MANNVILLE D	211.0	<0.01		0.1		0.1	0.1	
ALBRIGHT 071-09W6								
CHARLIE LAKE A	75.1	0.10		7.5		7.5	3.8	3.7
ALIX 040-23W4								
D-2	1 390.0	0.35		487.0		487.0	418.3	68.7
ALLIANCE 040-12W4								
BLAIRMORE	657.0	0.15		98.6		98.6	75.0	23.6
ALSIKE 049-02W6								
BANFF A	149.0	<0.01		0.3		0.3	0.3	
AMBER 115-07W6								
MUSKEG A	14.3	<0.13		1.8		1.8	1.8	
MUSKEG B	162.0	<0.21		32.5		32.5	32.5	

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
323	1.86	0.220	0.18	0.81	83	839	54	9 270	1 234.4	1952	81 12 - GPP
150	1.95	0.175	0.27	0.85	81	834	54	9 380	1 265.2	1954	64 04 - GPP
48	6.81	0.187	0.27	0.84	82	834	56	9 480	1 270.4	1954	88 12 - GPP
115	2.76	0.180	0.23	0.84	81	855	52	9 380	1 276.8	1950	88 12 - GPP
25	10.97	0.185	0.25	0.80	84	839	52	9 410	1 231.4	1960	89 12 - GPP
235	5.63	0.150	0.75	0.84	76	855	54	10 330	1 253.8	1951	88 05 - GPP
129	1.74	0.214	0.25	0.80	53	855	54	9 380	1 203.7	1950	74 12 - ABAND 74 06
64	3.50	0.170	0.40	0.80	77	840	51	8 912	1 214.3	1980	83 12 - SUSP 81 02
16	7.60	0.187	0.27	0.84	82	834	56	9 456	1 265.5	1954	88 12 - ABAND 68 01
32	5.30	0.190	0.27	0.84	60	867	55	8 983	1 274.2	1983	84 03 - GPP
64	1.50	0.180	0.45	0.84	58	877	56	9 073	1 245.9	1951	84 08 - SUSP 83 11
16	5.50	0.180	0.25	0.84	58	853	56	9 092	1 245.8	1951	88 05 - GPP
16	2.74	0.210	0.45	0.84	81	839	49	8 919	1 246.2	1955	88 05 - GPP
16	5.18	0.150	0.25	0.84	76	855	54	9 568	1 259.3	1969	88 05 - GPP
27	2.70	0.150	0.26	0.84	76	855	54	9 364	1 265.4	1951	88 05 - GPP
16	1.70	0.160	0.25	0.84	51	850	54	9 097	1 255.2	1985	86 03 - GPP
752	3.54	0.170	0.39	0.84	81	839	49	9 200	1 238.8	1951	88 12 - GPP
64	4.80	0.190	0.30	0.84	57	840	54	9 420	1 275.6	1962	85 12 - GPP
64	5.00	0.210	0.28	0.80	70	835	72	9 119	1 239.3	1982	85 12 - GPP
64	6.00	0.220	0.40	0.80	68	845	72	8 952	1 235.0	1981	83 05 - SUSP 85 01
16	2.40	0.190	0.40	0.84	81	840	54	9 251	1 322.8	1951	88 05 - ABAND 87 02
16	2.40	0.230	0.20	0.88	74	857	49	9 075	1 301.8	1987	88 04 - GPP
64	3.66	0.190	0.40	0.88	60	840	56	9 259	1 328.5	1952	88 12 - GPP
64	28.80	0.090	0.35	0.85	60	885	42	7 855	1 314.0	1982	82 06 - SUSP 83 05
486	8.17	0.034	0.30	0.82	64	834	57	10 900	1 397.5	1952	87 12 - GPP
65	6.10	0.024	0.36	0.83	64	834	56	10 900	1 419.8	1952	64 04 - ABAND 71 09
64	1.00	0.040	0.30	0.82	66	834	58	11 040	1 434.6	1951	88 12 - SUSP 86 02
1 542					90	834	60	11 930	1 547.8	1950	89 08 - GPP
262	18.38	0.114	0.08	0.76							
1 280	25.30	0.114	0.08	0.76							
84	5.51	0.185	0.27	0.80	74	839	52	9 200	1 208.5	1953	89 12 - GPP
1 236	4.79	0.180	0.30	0.80	74	839	52	9 310	1 239.0	1957	88 12 - GPP
64	4.00	0.190	0.35	0.80	74	857	52	8 826	1 235.8	1981	88 12 - GPP
132	4.04	0.200	0.33	0.80	71	845	51	9 218	1 238.7	1958	85 09 - GPP
32	6.80	0.200	0.35	0.80	56	854	50	8 619	1 260.8	1983	85 12 - GPP
16	3.60	0.170	0.25	0.92	26	945	50	9 011	1 155.8	1965	89 12 - ABAND 88 08
256	3.63	0.140	0.36	0.82	67	865	49	8 780	1 181.0	1971	89 04 - GPP
64	3.00	0.210	0.45	0.85	60	857	49	9 305	1 279.5	1980	89 12 - SUSP 86 04
64	1.80	0.110	0.40	0.90	25	762	63	19 309	2 093.8	1979	79 08 - SUSP 89 05
128	1.39	0.230	0.40	0.90	21	839	32	4 480	637.9	1967	85 06 - SUSP 85 04
64	5.10	0.150	0.25	0.75	125	832	43	8 660	1 116.5	1979	83 12 - SUSP 80 08
391	2.42	0.223	0.20	0.82	78	849	48	9 930	1 283.5	1958	89 12 - GPP
310	2.62	0.223	0.20	0.82							- GPP - MRL
64	4.90	0.130	0.50	0.82	73	867	47	9 731	1 297.5	1979	84 12 - SUSP 81 11
64	11.00	0.150	0.22	0.75	112	854	43	9 350	1 323.5	1979	88 07 - GPP
64	3.90	0.172	0.40	0.82	78	850	24	7 345	1 293.3	1980	89 12 - SUSP 87 11
64	1.90	0.090	0.12	0.78	76	832	73	15 569	2 344.4	1983	84 05 - GPP
966	4.39	0.057	0.19	0.71	152	825	59	16 620	1 823.9	1956	84 12 - GPP
137	3.21	0.250	0.35	0.92	29	898	35	6 620	961.9	1951	86 12 - GPP
64	3.50	0.120	0.35	0.85	77	900	64	15 960	1 548.5	1980	83 12 - ABAND 88 06
2	17.50	0.060	0.15	0.80	73	844	72	15 100	1 506.9	1968	71 05 - SUSP 70 03
17	22.74	0.065	0.15	0.76	95	834	70	15 380	1 565.1	1968	83 12 - SUSP 81 11

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
AMBER 115-07W6 (CONTINUED)								
MUSKEG C	129.0	0.30		38.7		38.7	11.5	27.2
MUSKEG D	410.0	<0.01		3.0		3.0	3.0	
MUSKEG E	200.0	<0.02		3.3		3.3	3.3	
MUSKEG F	210.0	0.10		21.0		21.0	6.4	14.6
MUSKEG G	471.0	<0.01		2.6		2.6	2.6	
MUSKEG H	316.0	0.10		31.6		31.6	0.1	31.5
KEG RIVER A	365.0	0.12		43.8		43.8	38.9	4.9
KEG RIVER B	540.0	<0.06		27.9		27.9	27.9	
KEG RIVER C	255.0	0.15		38.3		38.3	21.1	17.2
KEG RIVER E	330.0	0.25		82.5		82.5	62.9	19.6
KEG RIVER F	222.0	<0.23		50.7		50.7	50.7	
KEG RIVER G	200.0	<0.22		42.9		42.9	42.9	
KEG RIVER I	115.0	<0.05		4.8		4.8	4.8	
KEG RIVER J	455.0	<0.01		0.2		0.2	0.2	
KEG RIVER P	300.0	0.10		30.0		30.0	22.3	7.7
KEG RIVER Q	295.0	0.40		118.0		118.0	56.9	61.1
KEG RIVER R	300.0	0.30		90.0		90.0	31.7	58.3
KEG RIVER S	300.0	0.30		90.0		90.0	19.4	70.6
KEG RIVER T	518.0	0.25		130.0		130.0	29.9	100.1
KEG RIVER U	797.0	<0.02		15.8		15.8	15.8	
KEG RIVER V	600.0	<0.02		9.0		9.0	9.0	
KEG RIVER W	610.0	0.30		183.0		183.0	25.7	157.3
KEG RIVER X	44.8	<0.04		1.6		1.6	1.6	
KEG RIVER Y	305.0	0.20		61.0		61.0	3.5	57.5
KEG RIVER AA	300.0	<0.06		15.7		15.7	15.7	
KEG RIVER BB	86.3	0.35		30.2		30.2	10.7	19.5
KEG RIVER CC	450.0	0.25		112.5		112.5	36.5	76.0
AMIGO 120-08W6								
MUSKEG A	104.0	<0.01		0.9		0.9	0.9	
KEG RIVER A	100.0	<0.12		11.9		11.9	11.9	
KEG RIVER B	600.0	0.40		240.0		240.0	165.3	74.7
KEG RIVER C	184.0	0.40		73.6		73.6	47.5	26.1
KEG RIVER D	330.0	<0.03		39.5		39.5	39.5	
KEG RIVER E	100.0	0.30		30.0		30.0	9.4	20.6
KEG RIVER F	334.0	0.25		83.5		83.5	16.3	67.2
KEG RIVER G	276.0	0.35		96.6		96.6	30.4	66.2
KEG RIVER H	320.0	<0.03		6.7		6.7	6.7	
KEG RIVER I	70.0	0.16		11.3		11.3	11.3	
KEG RIVER J	200.0	0.35		70.0		70.0	20.2	49.8
ANTE CREEK 065-24W5								
DUNVEGAN A	288.0	<0.01		0.7		0.7	0.7	
NORDEGG A	670.0	0.05		33.5		33.5	9.2	24.3
BEAVERHILL LAKE SOLVENT FLOOD	5 930.0	0.16	0.32	949.0	1 900.0	2 850.0	2 008.5	841.5
BEAVERHILL LAKE B	1 670.0	0.35		585.0		585.0	489.5	95.5
GILWOOD A	46.1	<0.01		0.1		0.1		0.1
ANTE CREEK NORTH 067-23W5								
TRIASSIC A	198.0	<0.01		0.4		0.4	0.4	
ARMADA 017-19W4								
UPPER MANNVILLE A	724.0	0.05		36.2		36.2	16.0	20.2
BASAL QUARTZ G	107.0	<0.01		0.1		0.1	0.1	
ARMISIE 052-25W4								
BLAIRMORE	2 170.0	0.20		434.0		434.0	335.0	99.0
ASTOTIN 054-18W4								
VIKING D	109.0	<0.01		0.4		0.4	0.4	
VIKING H	194.0	0.03		5.8		5.8	3.9	1.9
VIKING I	187.0	<0.01		0.2		0.2	0.2	
ATIKAMIK 084-06W5								
KEG RIVER A	104.0	0.25		26.0		26.0	2.2	23.8
BADGER 016-18W4								
UPPER MANNVILLE A	103.0	<0.01		0.4		0.4	0.4	

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	10.50	0.030	0.20	0.80	64	800	82	14 623	1 577.3	1982	83 01
64	12.70	0.070	0.10	0.80	86	846	70	12 072	1 521.8	1983	89 12 - SUSP 87 06
64	5.00	0.085	0.08	0.80	68	856	78	13 109	1 535.1	1983	88 12 - SUSP 86 07
64	5.40	0.090	0.10	0.75	139	820	72	14 849	1 520.3	1984	86 09
128	7.68	0.071	0.10	0.75	64	828	68	16 597	1 503.4	1984	88 02 - ABAND 89 01
64	7.00	0.100	0.15	0.83	64	857	68	15 309	1 497.0	1987	88 09
19	43.10	0.070	0.15	0.75	110	825	72	15 510	1 566.1	1988	81 12 - GPP
38	37.95	0.060	0.17	0.75	111	825	72	15 560	1 566.4	1988	79 04 - SUSP 78 06
12	36.79	0.093	0.15	0.73	127	40	76	15 583	1 581.6	1988	85 04
28	39.00	0.070	0.40	0.72	125	825	76	15 650	1 580.1	1988	84 11
14	26.35	0.097	0.15	0.73	126	829	67	15 450	1 575.8	1988	70 02 - SUSP 84 05
14	27.00	0.090	0.15	0.68	157	820	72	15 220	1 557.8	1969	88 12 - SUSP 86 06
16	24.23	0.052	0.25	0.77	152	820	72	15 040	1 549.0	1969	78 12 - GPP
15	40.23	0.120	0.15	0.74	110	829	77	15 170	1 578.6	1969	71 01 - SUSP 70 10
25	18.50	0.100	0.10	0.72	128	820	76	15 461	1 605.0	1982	89 12
33	21.00	0.070	0.23	0.78	93	826	73	15 196	1 567.5	1982	85 04
19	23.60	0.100	0.13	0.77	93	829	73	15 433	1 588.3	1984	85 04
30	35.07	0.060	0.34	0.72	127	800	76	15 555	1 580.8	1983	86 06
64	12.00	0.100	0.10	0.75	138	806	71	15 124	1 599.0	1984	85 03 - SUSP 89 03
64	21.20	0.089	0.12	0.75	115	834	67	15 244	1 564.4	1984	85 03 - SUSP 87 05
24	42.00	0.095	0.13	0.72	127	810	76	15 142	1 564.3	1985	89 12 - SUSP 88 03
45	35.90	0.063	0.20	0.75	107	820	83	15 022	1 589.0	1985	87 05 - SUSP 89 03
13	10.85	0.058	0.27	0.75	115	820	80	14 965	1 568.0	1986	86 10 - SUSP 87 09
64	10.80	0.076	0.12	0.66	176	837	82	14 911	1 593.7	1987	87 12
16	26.71	0.100	0.10	0.78	53	823	82	15 600	1 602.5	1984	89 12 - SUSP 88 04
15	18.56	0.045	0.16	0.82	74	817	78	15 757	1 620.5	1984	84 09
32	15.38	0.127	0.10	0.80	70	832	68	15 532	1 606.0	1985	86 06
64	3.50	0.080	0.13	0.67	155	808	83	15 350	1 787.0	1983	88 12 - SUSP 86 06
6	55.10	0.054	0.20	0.70	130	833	83	15 829	1 814.3	1981	86 09 - SUSP 86 06
13	96.96	0.080	0.15	0.70	135	804	74	15 322	1 756.0	1979	86 06
6	58.17	0.080	0.11	0.74	118	850	71	16 104	1 725.0	1982	85 05
64	60.13	0.060	0.20	0.72	146	804	74	15 272	1 794.0	1968	79 12 - SUSP 79 02
9	38.00	0.060	0.25	0.65	160	814	78	15 478	1 804.0	1982	88 07
19	32.11	0.100	0.13	0.63	170	826	71	16 119	1 746.0	1982	86 06
29	32.79	0.060	0.18	0.59	233	803	81	16 766	1 803.4	1983	86 06
10	52.30	0.096	0.09	0.70	100	816	77	15 490	1 786.5	1985	89 12 - SUSP 87 04
5	20.80	0.120	0.20	0.70	233	803	81	15 956	1 852.0	1982	86 09
17	37.60	0.058	0.17	0.65	159	830	70	15 525	1 758.8	1986	87 05
64	4.61	0.181	0.35	0.83	62	834	59	10 340	1 365.8	1974	74 12 - ABAND 79 02
16	21.30	0.230	0.10	0.95	10	953	64	29 034	2 052.8	1987	87 08
3 633	6.90	0.063	0.22	0.48	342	806	110	35 580	3 434.8	1963	89 10
1 540	3.90	0.057	0.25	0.65	166	820	103	37 605	3 391.5	1966	71 02
65	2.44	0.090	0.35	0.50	35	806	127	34 820	3 397.9	1965	65 05 - ABAND 72 10
64	6.27	0.110	0.35	0.69	147	825	59	16 493	1 879.1	1979	81 01 - SUSP 89 01
64	7.90	0.208	0.19	0.85	62	896	45	11 718	1 196.3	1980	89 12
64	2.00	0.160	0.40	0.87	60	871	36	12 308	1 213.4	1984	88 12 - ABAND 89 03
407	4.76	0.180	0.25	0.83	79	834	49	9 520	1 238.1	1951	87 12 - GPP
64	1.50	0.210	0.40	0.90	41	864	23	4 554	683.3	1981	88 12 - SUSP 86 11
64	2.20	0.250	0.40	0.92	30	846	28	5 181	687.6	1983	86 12
64	2.20	0.240	0.40	0.92	30	846	28	5 570	681.0	1984	88 12 - ABAND 86 02
64	2.20	0.140	0.34	0.80	84	846	36	9 300	1 559.5	1985	86 04
65	1.22	0.230	0.35	0.87	51	881	54	12 250	1 125.9	1974	76 04 - SUSP 76 06

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
BARONS 012-23W4								
COLORADO	280.0	<0.30		83.1		83.1	83.1	
BARONS A	313.0	0.05		15.7		15.7	9.9	5.8
BARONS B	102.0	0.10		10.2		10.2	0.4	9.8
BOW ISLAND A	64.8	<0.01		0.2		0.2	0.2	
BASHAW 041-23W4								
BASAL MANNVILLE J	146.0	<0.01		1.3		1.3	1.3	
D-2 A	992.0	<0.03		25.0		25.0	21.4	3.6
D-2 B	1 800.0	0.35		630.0		630.0	220.1	409.9
D-2 C	1 552.0	0.35		543.0		543.0	66.9	476.1
D-2 D	713.0	0.35		250.0		250.0	31.8	218.2
D-2 E	409.0	0.35		143.0		143.0	9.5	133.5
D-2 F	372.0	0.35		130.0		130.0	8.1	121.9
IRETON A	416.0	0.07		29.1		29.1	26.8	2.3
D-3 A	1 600.0	0.35		560.0		560.0	515.1	44.9
D-3 B	264.0	0.10		26.4		26.4	22.4	4.0
D-3 C	160.0	<0.01		0.1		0.1	0.1	
D-3 D	57.8	<0.01		0.1		0.1	0.1	
BASSANO 021-18W4								
OSTRACOD A	136.0	<0.01		1.0		1.0	1.0	
BATTLE 046-20W4								
VIKING	824.0	0.25		206.0		206.0	170.5	35.5
BATTLE NORTH 046-20W4								
VIKING	242.0	<0.27		63.8		63.8	63.8	
BATTLE SOUTH 046-20W4								
VIKING	937.0	0.30		281.0		281.0	203.6	77.4
BEATON 087-02W6								
WABAMUN A	102.0	0.10		10.2		10.2	3.2	7.0
BEAVERHILL LAKE 052-19W4								
UPPER VIKING F	150.0	<0.01		0.4		0.4	0.4	
BELLOY 078-01W6								
BELLOY A	68.5	0.15		10.3		10.3	9.1	1.2
BELLOY B	78.2	0.10		7.8		7.8	3.1	4.7
DEBOLT C	139.0	0.05		7.0		7.0	2.9	4.1
D-1 A	329.0	0.20		65.8		65.8	20.5	45.3
D-1 B	1 425.0	0.20		285.0		285.0	45.3	239.7
D-1 C	92.7	0.20		18.5		18.5	5.7	12.8
D-1 D	1 729.0	0.20		348.0		348.0	30.1	317.9
D-1 E	536.0	0.20		107.0		107.0	4.1	102.9
D-1 H	372.0	0.20		74.4		74.4	12.1	62.3
D-1 I	685.0	0.25		171.0		171.0	8.7	162.3
D-1 J	797.0	0.20		159.0		159.0	11.7	147.3
D-1 K	750.0	0.20		150.0		150.0	9.2	140.8
D-1 L	443.0	0.20		89.0		89.0	14.3	74.7
BELLSHILL LAKE 041-12W4								
UPPER VIKING A	67.7	<0.01		0.2		0.2	0.2	
BLAIRMORE	30 800.0	0.40		12 300.0		12 300.0	10 697.3	1 602.7
BLAIRMORE E	1 400.0	0.02		28.0		28.0	10.6	17.4
BLAIRMORE F	31.3	<0.01		0.3		0.3	0.3	
BLAIRMORE G	214.0	0.10		21.4		21.4	3.7	17.7
ELLERSLIE A	1 530.0	0.02		30.6		30.6	11.9	18.7
ELLERSLIE C	51.1	<0.01		0.1		0.1	0.1	
BERRY 027-12W4								
UPPER MANNVILLE C	850.0	<0.07		57.0		57.0	48.5	8.5
BIGORAY 052-08W6								
BELLY RIVER A	239.0	0.05		12.0		12.0	2.2	9.8
CARDIUM B TOTAL	3 442.0			344.0	770.0	1 114.0	645.0	469.0
PRIMARY AREA	364.0	0.10		36.4		36.4		
WATER FLOOD AREA	3 078.0	0.10	0.25	308.0	770.0	1 078.0		
OSTRACOD TOTAL	2 908.0			349.0	685.0	1 034.0	808.1	225.9

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
221	0.82	0.227	0.20	0.85	51	855	37	9 380	1 253.6	1950	75 12 - ABAND 85 10
192	1.88	0.170	0.40	0.85	62	857	35	5 237	1 349.6	1986	87 09
64	1.83	0.170	0.40	0.85	62	856	36	5 235	1 352.1	1987	87 09 - SUSP 89 09
65	1.52	0.140	0.50	0.94	23	855	34	5 000	1 307.9	1973	74 12 - ABAND 76 09
64	2.70	0.170	0.40	0.83	76	844	42	10 590	1 478.7	1978	85 12 - ABAND 88 06
903	4.82	0.037	0.20	0.77	93	844	57	16 270	1 715.1	1951	88 12 - GPP
429	5.90	0.110	0.16	0.77	88	830	62	12 856	1 800.2	1973	87 12
128	19.70	0.090	0.10	0.76	107	825	70	14 022	1 744.3	1987	89 06
128	8.22	0.110	0.19	0.76	107	826	70	12 831	1 780.8	1987	89 02
64	8.50	0.110	0.10	0.76	107	825	70	12 329	1 782.8	1988	88 08
64	10.00	0.090	0.15	0.76	107	825	70	12 410	1 783.3	1988	89 03
65	15.54	0.074	0.30	0.80	76	910	51	16 270	1 717.2	1963	84 12 - GPP
1 375	3.05	0.067	0.15	0.67	163	825	58	16 070	1 756.6	1951	84 12 - GPP
130	4.72	0.077	0.20	0.70	142	829	58	15 270	1 746.5	1966	83 12 - GPP
64	4.00	0.110	0.15	0.67	163	827	58	16 065	1 709.5	1985	85 09 - SUSP 86 01
64	2.50	0.070	0.23	0.67	163	895	54	12 624	1 736.5	1986	86 10 - SUSP 86 11
64	1.80	0.210	0.34	0.85	68	883	31	9 564	1 179.1	1984	84 11 - SUSP 85 08
574	1.82	0.146	0.40	0.90	35	839	37	5 690	983.9	1953	83 12 - GPP
194	1.54	0.150	0.40	0.90	35	839	37	5 690	990.3	1954	89 12 - SUSP 88 04
451	2.53	0.152	0.40	0.90	35	839	37	5 857	970.2	1954	84 07 - GPP
64	5.79	0.050	0.19	0.67	160	876	62	15 800	1 654.1	1974	81 12
64	2.00	0.200	0.35	0.90	29	864	38	5 163	794.0	1978	85 12 - ABAND 83 07
64	1.70	0.110	0.31	0.83	66	868	45	12 397	1 257.7	1951	85 12 - GPP
64	2.00	0.130	0.39	0.77	100	885	40	11 425	1 248.7	1985	85 08
64	1.50	0.280	0.39	0.85	52	853	47	11 493	1 493.7	1978	89 06 - GPP
64	26.30	0.030	0.13	0.75	145	865	65	17 762	2 078.8	1984	86 10
256	35.65	0.026	0.23	0.78	111	884	60	21 633	2 041.6	1986	88 07
64	6.80	0.040	0.29	0.75	96	850	67	22 071	2 068.8	1985	85 10 - SUSP 88 04
128	63.30	0.037	0.27	0.79	88	838	56	22 939	2 115.8	1987	87 12
64	23.46	0.071	0.25	0.67	89	858	71	20 836	2 002.7	1987	88 06
64	22.59	0.044	0.25	0.78	111	841	60	21 946	2 194.6	1988	88 07
64	40.30	0.040	0.16	0.79	80	827	69	22 608	2 123.1	1988	88 08
128	27.30	0.037	0.21	0.78	111	841	60	22 005	2 005.5	1988	88 12
64	43.80	0.044	0.22	0.78	111	841	60	22 473	2 143.2	1988	88 12
128	33.60	0.019	0.19	0.67	163	832	64	2 096.1	1988	89 02	
64	0.93	0.250	0.50	0.91	37	849	27	5 520	767.8	1957	75 12 - ABAND 84 07
2 368	7.08	0.267	0.26	0.93	29	892	34	6 480	919.6	1956	85 02 - GPP
218	4.60	0.200	0.25	0.93	28	899	32	6 220	955.1	1977	89 12 - GPP
16	2.00	0.150	0.30	0.93	26	866	33	5 935	921.6	1979	85 12 - SUSP 83 09
64	4.00	0.150	0.40	0.93	26	894	30	5 703	980.8	1985	86 06
112	6.64	0.270	0.18	0.93	28	913	33	6 454	974.7	1983	89 12 - SUSP 89 12
16	1.60	0.280	0.25	0.95	40	922	34	6 387	984.8	1984	81 12 - ABAND 87 10
525	1.64	0.190	0.41	0.88	49	828	43	9 601	1 101.2	1980	89 07 - GPP
64	4.00	0.195	0.45	0.87	54	822	34	7 824	1 084.1	1987	89 12
1 106					50	872	49	14 990	1 492.7	1978	89 12
250	3.81	0.050	0.15	0.90							
856	4.47	0.109	0.18	0.90							
1 290					111	839	59	17 240	1 795.6	1959	87 12

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
BIGORAY 052-08W5 (CONTINUED)								
PRIMARY AREA	458.0	0.12		55.0		55.0		
WATER FLOOD AREA	2 450.0	0.12	0.28	294.0	685.0	979.0		
OSTRACOD B	321.0	<0.02		4.4		4.4	4.4	
ELLERSLIE A	266.0	0.02		5.3		5.3	3.9	1.4
ELLERSLIE B	277.0	0.10		27.7		27.7	7.4	20.3
ELLERSLIE D TOTAL	1 095.0			110.0	190.0	300.0	123.6	176.4
PRIMARY AREA	145.0	0.10		14.5		14.5		
WATER FLOOD AREA	950.0	0.10	0.20	95.0	190.0	285.0		
ELLERSLIE E	142.0	0.10		14.2		14.2	9.5	4.7
ELLERSLIE G TOTAL	1 320.0			132.0	90.0	222.0	90.5	131.5
PRIMARY AREA	820.0	0.10		82.0		82.0		
WATER FLOOD AREA	500.0	0.10	0.18	50.0	90.0	140.0		
ROCK CREEK A	187.0	<0.03		5.1		5.1	5.1	
ROCK CREEK B	37.0	<0.01		0.1		0.1	0.1	
ROCK CREEK C	130.0	<0.05		5.5		5.5	5.5	
NISKU A WATER FLOOD	740.0	0.30	0.15	222.0	111.0	333.0	262.3	70.7
NISKU B	1 500.0	0.30	0.30	450.0	450.0	900.0	598.1	301.9
SOLVENT FLOOD								
NISKU C WATER FLOOD	1 200.0	0.35	0.11	420.0	132.0	552.0	165.6	386.4
NISKU D WATER FLOOD	2 200.0	0.40	0.10	880.0	220.0	1 100.0	442.4	657.6
NISKU E WATER FLOOD	2 000.0	0.35	0.10	700.0	200.0	900.0	450.6	449.4
NISKU F	2 800.0	0.40	0.36	1 120.0	1 010.0	2 130.0	1 298.9	831.1
SOLVENT FLOOD								
NISKU G WATER FLOOD	924.0	0.30	0.20	277.0	185.0	462.0	341.2	120.8
NISKU H WATER FLOOD	2 200.0	0.30	0.12	660.0	264.0	924.0	549.7	374.3
NISKU I WATER FLOOD	600.0	0.33	0.10	200.0	60.0	260.0	165.7	94.3
NISKU K WATER FLOOD	870.0	0.30	0.15	261.0	131.0	392.0	293.3	98.7
BIGSTONE 060-22W5								
CARDIUM A	16.1	0.10		1.6		1.6	0.3	1.3
CARDIUM B	149.0	0.10		14.9		14.9	7.6	7.3
CARDIUM C	49.3	0.30		14.8		14.8	11.0	3.8
BILAWCHUK 080-09W6								
HALFWAY A	394.0	<0.01		0.2		0.2	0.2	
BILBO 065-06W6								
A CARDIUM A	666.0	0.15		99.9		99.9	42.9	57.0
A CARDIUM B	169.0	0.10		16.9		16.9	9.6	7.3
BITTERN LAKE 046-22W4								
NISKU A	180.0	<0.01		0.2		0.2	0.2	
BLACK 110-09W6								
MUSKEG A	150.0	0.30		45.0		45.0	34.1	10.9
MUSKEG C	360.0	0.15		54.0		54.0	28.9	25.1
KEG RIVER A	2 860.0	0.15	0.10	429.0	286.0	715.0	648.5	66.5
WATER FLOOD								
KEG RIVER B	222.0	0.10		22.2		22.2	2.8	19.4
BLACKFOOT 022-23W4								
LOWER MANNVILLE A	106.0	0.20		21.2		21.2	16.4	4.8
BLOOR 033-12W4								
GLAUCONITIC C	123.0	<0.01		0.2		0.2	0.2	
ELLERSLIE A	51.9	0.10		5.2		5.2	0.1	5.1
BONANZA 081-11W6								
BOUNDARY A TOTAL	6 059.0			761.0	739.0	1 500.0	385.7	1 114.3
PRIMARY AREA	149.0	0.15		22.0		22.0		
WATER FLOOD AREA	5 910.0	0.12	0.12	739.0	739.0	1 478.0		
BONNIE GLEN 046-27W4								
CARDIUM A	4 130.0	0.05		207.0	ERSO	207.0	199.8	7.2
D-2 A	138.0	<0.08		9.8		9.8	9.8	
D-3 A	125 000.0	<0.68		84 700.0		84 700.0	80 383.8	4 316.2
BOUNDARY LAKE SOUTH 085-13W6								
TRIASSIC B	131.0	<0.01		0.2		0.2	0.2	
TRIASSIC C TOTAL	3 586.0			413.0	324.0	737.0	420.9	316.1

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
293	1.57	0.187	0.30	0.76							
997	2.47	0.187	0.30	0.76							
64	4.00	0.220	0.25	0.76	120	834	60	17 650	1 841.6	1968	81 12 - ABAND 80 10
64	4.00	0.190	0.30	0.78	89	839	60	16 025	1 785.3	1979	81 12
64	2.44	0.320	0.29	0.78	25	853	50	13 809	1 816.6	1974	80 09
512					111	833	64	16 202	1 820.1	1979	89 01
64	3.30	0.133	0.31	0.75							
448	3.51	0.130	0.38	0.75							
64	3.24	0.137	0.39	0.82	70	843	65	14 471	1 821.6	1979	80 10
448					113	853	50	16 555	1 800.3	1978	86 06
258	4.78	0.130	0.28	0.71							
190	4.54	0.120	0.32	0.71							
64	3.00	0.200	0.30	0.70	135	840	62	16 466	1 780.2	1977	82 03 - SUSP 87 12
80	1.50	0.110	0.60	0.70	121	840	57	15 097	1 770.4	1979	85 07 - GPP
93	2.19	0.140	0.35	0.70	121	840	57	15 739	1 770.4	1979	89 12 - SUSP 87 12
66	30.50	0.062	0.28	0.82	73	847	73	20 180	2 347.6	1978	81 02
67	49.24	0.067	0.22	0.87	71	834	76	21 725	2 340.0	1978	81 06
82	32.96	0.075	0.26	0.80	106	860	79	21 940	2 423.7	1978	87 05
190	18.48	0.088	0.11	0.80	84	841	80	29 100	2 496.4	1978	79 04
100	45.57	0.060	0.10	0.81	56	835	80	28 448	2 504.4	1978	81 12
52	66.00	0.110	0.07	0.80	71	834	78	22 000	2 400.0	1977	87 07
67	20.20	0.120	0.28	0.79	88	835	74	20 343	2 340.4	1978	88 12
58	46.00	0.120	0.18	0.84	50	842	73	18 740	2 290.3	1979	83 01
51	25.10	0.092	0.32	0.76	100	840	73	17 940	2 285.7	1978	81 11
43	40.05	0.081	0.23	0.81	63	848	69	19 360	2 301.2	1979	88 02
64	0.93	0.074	0.47	0.69	148	821	64	15 712	1 706.7	1987	88 07 - SUSP 88 10
64	3.69	0.100	0.17	0.76	110	865	49	16 024	1 820.0	1976	76 12
64	2.10	0.070	0.31	0.76	150	852	60	20 886	1 822.5	1980	88 08
64	12.51	0.113	0.42	0.75	100	844	61	11 750	1 485.5	1984	88 12 - SUSP 86 02
1 294	1.20	0.110	0.35	0.60	211	803	51	12 812	1 509.9	1985	89 09
192	1.80	0.100	0.35	0.75	120	835	43	14 459	1 377.0	1979	88 05
64	7.50	0.080	0.45	0.85	55	875	41	10 182	1 373.5	1982	82 07 - SUSP 82 09
64	7.54	0.060	0.30	0.74	62	829	85	15 950	1 916.6	1969	82 08 - GPP
48	15.20	0.079	0.16	0.74	96	830	84	16 022	1 863.1	1967	86 11
80	82.00	0.078	0.14	0.65	160	806	91	18 730	1 993.7	1967	79 12 - GPP
20	30.50	0.070	0.20	0.65	160	806	85	16 480	1 742.5	1968	84 12 - GPP
128	0.92	0.150	0.25	0.80	83	845	43	12 680	1 542.4	1963	80 03 - GPP
64	2.80	0.180	0.55	0.85	56	862	38	8 417	1 066.6	1982	88 12 - ABAND 87 08
64	0.80	0.180	0.36	0.88	52	863	42	8 599	1 128.9	1987	88 03
2 564					94	62	54	13 475	1 388.9	1973	89 12
64	2.40	0.210	0.45	0.84							
2 500	2.60	0.150	0.28	0.84							
1 318	3.26	0.130	0.16	0.88	41	834	49	14 270	1 204.3	1955	83 12 - GPP
67	6.28	0.057	0.20	0.72	124	815	76	14 270	1 946.5	1952	71 12 - ABAND 71 10
3 120	59.13	0.106	0.06	0.68	141	815	81	17 100	2 165.6	1952	83 12
65	1.83	0.197	0.25	0.75	98	844	46	13 100	1 385.6	1965	68 03 - ABAND 67 09
880					110	844	48	12 640	1 306.1	1968	82 08

TABLE 2-4

FIELD POOL	1	3		6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
BOUNDARY LAKE SOUTH 085-13W6 (CONTINUED)								
PRIMARY AREA	886.0	0.10		88.6		88.6		
WATER FLOOD AREA	2 700.0	0.12	0.12	324.0		648.0		
TRIASSIC E TOTAL	11 800.0			1 130.0	2 790.0	3 920.0	2 919.8	1 000.2
PRIMARY AREA	2 500.0	0.10		200.0		200.0		
WATER FLOOD AREA	9 300.0	0.10	0.30	930.0	2 790.0	3 720.0		
TRIASSIC F	50.0	<0.01		0.2		0.2	0.2	
TRIASSIC H TOTAL	3 655.0			366.0	578.0	944.0	332.0	612.0
PRIMARY AREA	445.0	0.10		44.5		44.5		
WATER FLOOD AREA	3 210.0	0.10	0.18	321.0	578.0	899.0		
TRIASSIC I	475.6	0.10		47.5		47.5	23.9	23.6
TRIASSIC J	193.0	0.10		19.3		19.3	3.8	15.5
CHARLIE LAKE A	231.0	0.10		23.1		23.1	7.2	15.9
BOUNDARY A	1 038.0	0.10		104.0		104.0	40.3	63.7
BOUNDARY C	90.8	<0.01		0.1		0.1	0.1	
BRAEBURN 077-10W6								
BOUNDARY A	204.0	0.20		40.8		40.8	22.5	18.3
BOUNDARY B	246.0	0.10		24.6		24.6	10.5	14.1
BRANT 019-25W4								
TURNER VALLEY A	103.0	<0.01		0.1		0.1		0.1
BRAZEAU RIVER 046-13W5								
BELLY RIVER A	94.1	<0.01		1.4		1.4	1.4	
BELLY RIVER C	1 331.0	0.10		133.0		133.0	43.2	89.8
BELLY RIVER D	194.0	0.10		19.4		19.4	7.5	11.9
BELLY RIVER E	1 440.0	0.10		144.0		144.0	25.9	118.1
BELLY RIVER F	118.0	0.10		11.8		11.8	5.9	5.9
BELLY RIVER G	113.0	0.10		11.3		11.3	1.8	9.5
BELLY RIVER I	127.0	0.10		12.7		12.7	0.2	12.5
BELLY RIVER J	174.0	<0.01		0.1		0.1	0.1	
BELLY RIVER M	214.0	0.10		21.4		21.4	0.2	21.2
BELLY RIVER O	318.0	0.10		31.8		31.8	0.4	31.4
BELLY RIVER P	186.0	0.10		18.6		18.6	1.3	17.3
BELLY RIVER Q	525.0	0.10		52.5		52.5	2.7	49.8
BELLY RIVER S	252.0	0.10		25.2		25.2	0.4	24.8
BELLY RIVER T	133.0	0.10		13.3		13.3	0.7	12.6
BELLY RIVER U	151.0	0.10		15.1		15.1	4.3	10.8
BELLY RIVER V	79.0	0.10		7.9		7.9	1.6	6.3
BELLY RIVER W	171.0	0.10		17.1		17.1	1.8	15.3
BELLY RIVER X	1 265.0	0.10		127.0		127.0	13.0	114.0
BELLY RIVER Z	259.0	<0.01		0.3		0.3	0.3	
BELLY RIVER AA	225.0	0.10		22.5		22.5	1.3	21.2
BELLY RIVER BB	113.0	0.15		17.0		17.0	13.4	3.6
BELLY RIVER FF	3 138.0	0.10		314.0		314.0	33.3	280.7
BELLY RIVER II	2 297.0	0.10		230.0		230.0	36.9	193.1
BELLY RIVER JJ	263.0	0.05		13.2		13.2	0.3	12.9
BELLY RIVER KK	178.0	0.10		17.8		17.8		17.8
BELLY RIVER H & Y	4 745.0	0.10		475.0		475.0	299.9	175.1
BELLY RIVER CC & DD	243.0	0.10		24.3		24.3	1.4	22.9
CARDIUM A	193.0	0.10		19.3		19.3	16.9	2.4
CARDIUM C	2 500.0	0.15		375.0		375.0	120.1	254.9
CARDIUM D	89.2	<0.01		0.5		0.5	0.5	
CARDIUM G	188.0	0.15		28.2		28.2	15.1	13.1
CARDIUM I	200.0	0.15		30.0		30.0	19.4	10.6
CARDIUM K	490.0	0.15		73.5		73.5	28.6	44.9
CARDIUM O	52.3	0.15		7.8		7.8	5.4	2.4
CARDIUM P	205.0	0.15		30.8		30.8	12.9	17.9
CARDIUM Q	38.6	0.10		3.9		3.9	2.4	1.5
CARDIUM R	331.0	0.08		26.5		26.5	25.6	0.9
CARDIUM T	65.6	0.15		9.8		9.8		9.8
VIKING A	465.0	0.15		70.0		70.0	28.8	41.2
VIKING D	2 750.0	0.17		468.0		468.0	191.2	276.8
LOWER MANNVILLE A	121.0	0.10		12.1		12.1	9.8	2.3
LOWER MANNVILLE B	82.5	<0.03		2.4		2.4		
LOWER MANNVILLE C	724.0	0.05		36.2		36.2	3.7	32.5
LOWER MANNVILLE D	110.0	0.10		11.0		11.0	1.7	9.3
CADOMIN A	39.7	<0.04		1.3		1.3		
CADOMIN B	108.0	<0.05		4.4		4.4	4.4	
ROCK CREEK B	378.0	<0.01		0.8		0.8	0.8	

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
192	3.18	0.206	0.12	0.80							
688	2.57	0.210	0.09	0.80							
4 380					92	846	47	12 860	1 330.0	1964	88 01 - GPP
1 024	2.38	0.153	0.15	0.79							
3 356	2.55	0.160	0.14	0.79							
64	0.61	0.175	0.05	0.77	106	844	46	12 560	1 317.7	1965	80 04 - SUSP 79 11
1 562				0.79	92	844	49	12 752	1 283.9	1973	88 08
64	4.99	0.196	0.10	0.79							
1 498	1.99	0.160	0.15	0.79							
192	2.08	0.175	0.18	0.83	62	844	47	12 240	1 303.9	1977	80 11
64	2.30	0.210	0.21	0.79	183	838	47		1 326.5	1988	89 02
64	2.50	0.210	0.15	0.81	36	927	42	22 719	1 291.3	1983	84 12
560	1.51	0.170	0.13	0.83	90	844	50	11 468	1 281.9	1983	88 10
64	1.60	0.120	0.11	0.83	60	844	50	12 800	1 312.0	1984	88 12 - SUSP 86 03
128	2.15	0.130	0.16	0.68	110	813	75	15 078	1 787.3	1982	87 12
64	4.00	0.120	0.13	0.92	16	856	67	14 533	1 843.1	1983	84 01
64	7.70	0.050	0.45	0.76	108	900	64	14 690	1 469.0	1980	80 06 - ABAND 85 08
64	1.80	0.170	0.46	0.89	27	869	33	9 650	1 389.3	1978	84 12 - SUSP 83 09
256	8.25	0.127	0.38	0.80	90	810	58	10 394	1 937.4	1985	89 01
64	5.40	0.120	0.40	0.78	90	853	62	10 164	1 984.4	1985	87 04
746	3.82	0.120	0.48	0.81	82	810	61	10 327	1 792.6	1987	89 03 - GPP
64	2.70	0.130	0.35	0.81	82	810	61	10 177	1 771.2	1985	85 11 - GPP
64	4.00	0.090	0.45	0.89	62	826	57	8 769	1 661.1	1985	86 09 - SUSP 88 10
64	3.50	0.120	0.40	0.79	85	857	53	7 884	1 495.0	1985	86 12 - SUSP 87 12
64	4.00	0.140	0.40	0.81	82	810	61	9 567	1 691.2	1986	87 04 - SUSP 86 10
64	7.00	0.110	0.45	0.79	85	812	53	8 769	1 658.3	1986	87 08
64	9.20	0.120	0.40	0.75	111	850	66	10 292	1 827.2	1987	88 02
64	6.40	0.110	0.45	0.75	111	813	66	10 596	1 728.2	1987	88 02
64	13.50	0.135	0.40	0.75	111	800	66	10 644	2 032.0	1987	88 02
64	5.20	0.160	0.40	0.79	87	826	48	9 194	1 760.3	1987	88 04
64	4.05	0.120	0.45	0.78	86	800	57	10 721	1 734.2	1986	88 04
64	5.00	0.110	0.45	0.78	84	830	60	11 176	1 930.8	1987	88 04
64	2.60	0.110	0.45	0.78	84	784	60	11 123	1 921.6	1987	88 04
64	5.20	0.120	0.45	0.78	86	784	58	10 480	1 875.2	1987	88 04
419	5.35	0.120	0.44	0.84	56	810	61	8 218	1 707.2	1987	89 09
64	7.00	0.130	0.45	0.84	56	810	61	9 156	1 893.1	1985	88 08
64	6.00	0.127	0.45	0.84	56	810	61	7 805	1 761.9	1985	88 08
65	3.05	0.140	0.47	0.77	106	876	54	10 830	2 057.1	1965	88 12 - GPP
527	9.22	0.138	0.40	0.78	93	800	58	10 365	1 766.9	1987	89 09
893	6.48	0.106	0.52	0.78	93	800	63		1 892.8	1961	89 09
64	8.05	0.126	0.50	0.81	73	805	47		1 737.4	1988	89 09
64	5.50	0.130	0.50	0.78	93	800	63		1 639.1	1988	89 10
1 652	5.62	0.117	0.44	0.78	111	828	66	11 866	2 013.0	1986	88 08
64	5.40	0.125	0.25	0.75	111	775	66	10 386	1 857.2	1987	89 01
195	1.52	0.140	0.20	0.58	164	788	71	16 550	2 371.3	1966	83 12 - GPP
2 148	2.36	0.100	0.15	0.58	293	784	77	26 331	2 446.4	1973	86 10
64	3.00	0.101	0.20	0.58	164	826	60	19 960	2 100.9	1980	88 12 - SUSP 86 04
100	4.50	0.090	0.20	0.58	115	783	73	26 177	2 456.8	1981	86 09
103	3.00	0.140	0.20	0.58	240	793	76	25 470	2 417.4	1971	85 12
927	1.56	0.080	0.27	0.58	245	796	76	25 895	2 291.6	1973	89 09
64	1.60	0.110	0.20	0.58	210	760	66	25 834	2 364.4	1985	86 03 - GPP
192	2.16	0.120	0.29	0.58	235	808	82	26 646	2 371.4	1986	88 07
64	1.50	0.090	0.23	0.58	235	781	82	27 783	2 427.3	1985	87 05
256	1.85	0.120	0.13	0.67	217	806	76	22 710	2 475.3	1956	88 08 - GPP
64	1.60	0.170	0.35	0.58	245	796	76		2 220.6	1987	89 12
256	1.82	0.160	0.20	0.78	114	815	79	25 240	2 464.0	1973	79 10
2 355	1.18	0.170	0.19	0.72	160	833	80	30 409	2 534.0	1973	88 07
65	4.57	0.090	0.30	0.65	184	815	92	39 610	3 120.2	1967	68 05 - GPP
64	1.52	0.170	0.18	0.60	220	804	99	29 950	2 737.7	1975	78 05 - ABAND 84 07
64	9.75	0.210	0.15	0.65	177	812	95	32 960	3 079.1	1974	87 04 - GPP
64	2.70	0.150	0.35	0.65	180	803	93	27 319	2 884.2	1967	84 10
65	0.91	0.120	0.30	0.80	66	788	96	29 650	3 098.9	1972	88 08 - GPP
64	5.00	0.085	0.25	0.53	352	779	124	32 251	3 119.5	1978	88 08 - GPP
64	8.43	0.124	0.32	0.83	65	803	72	30 251	2 776.3	1983	84 09 - SUSP 85 10

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
BRAZEAU RIVER								
046-13W5 (CONTINUED)								
NISKU A	5 300.0	0.40	0.35	2 120.0	1 860.0	3 980.0	3 466.6	513.4
SOLVENT FLOOD								
NISKU B	2 300.0	0.40	0.24	920.0	550.0	1 470.0	1 030.9	439.1
SOLVENT FLOOD								
NISKU C	30.0	<0.14		4.1		4.1	4.1	
NISKU D	2 700.0	0.40	0.25	1 080.0	675.0	1 760.0	1 083.9	676.1
SOLVENT FLOOD								
NISKU E	2 300.0	0.45	0.20	1 040.0	460.0	1 500.0	1 343.9	156.1
SOLVENT FLOOD								
NISKU G	85.0	0.30		25.5		25.5	17.4	8.1
NISKU H	85.0	0.30		25.5		25.5	21.0	4.5
NISKU I	1 060.0	<0.35		369.0		369.0	241.3	127.7
NISKU L	575.0	0.30		173.0		173.0	40.5	132.5
NISKU X	595.0	0.30		179.0		179.0	24.6	154.4
BRUCE 047-14W4								
LOWER MANNVILLE I	372.0	<0.01		0.3		0.3	0.3	
ELLERSLIE PP	315.0	0.10		31.5		31.5	2.9	28.6
WABAMUN L	87.3	0.15		13.1		13.1	0.7	12.4
WABAMUN M	93.0	0.15		14.0		14.0	0.7	13.3
WABAMUN N	47.8	0.15		7.2		7.2		7.2
STETTLER A	53.0	0.20		10.6		10.6	0.1	10.5
BUFFALO LAKE 039-21W4								
D-3	1 410.0	0.55		776.0		776.0	746.7	29.3
D-3 B	782.0	0.60		470.0		470.0	344.8	125.2
BYEMOOR 034-19W4								
VIKING A	144.0	0.08		11.5		11.5	6.4	5.1
CACHE 057-11W4								
VIKING D	73.5	<0.01		0.2		0.2	0.2	
CALAIS 070-24W5								
D-3 A	700.0	0.50		350.0		350.0	128.4	221.6
CAMPBELL-NAMAO								
054-25W4								
CAMPBELL BLAIRMORE A	2 860.0	0.09		257.0		257.0	243.4	13.6
NAMAO BLAIRMORE C	216.0	0.18		38.9		38.9	35.9	3.0
NAMAO BLAIRMORE D	176.0	0.15		26.4		26.4	22.5	3.9
NAMAO BLAIRMORE E	2 940.0	0.06		176.0		176.0	170.8	5.2
NAMAO BLAIRMORE F	3 960.0	0.10		396.0		396.0	235.0	161.0
BLAIRMORE G	496.0	0.03		14.9		14.9	4.0	10.9
BLAIRMORE J	1 110.0	0.09		100.0		100.0	56.5	43.5
BLAIRMORE M	109.0	<0.01		0.1		0.1		0.1
BLAIRMORE N	190.0	0.10		19.0		19.0	2.2	16.8
BLAIRMORE O	588.0	0.03		17.6		17.6	7.0	10.6
BLAIRMORE P	84.1	0.10		8.4		8.4	0.9	7.5
BLAIRMORE Q	330.0	0.10		33.0		33.0	0.6	32.4
WABAMUN A	108.0	0.10		10.8		10.8	1.0	9.8
CARBON 029-22W4								
PEKISKD B	133.0	0.06		8.0		8.0	6.3	1.7
PEKISKD E	133.0	<0.10		12.5		12.5	11.9	0.6
CARDIFF 055-02W5								
ELLERSLIE B	122.0	0.10		12.2		12.2	0.9	11.3
WABAMUN A	1 130.0	0.10		113.0		113.0	25.4	87.6
CARIBOU 062-10W5								
BEAVERHILL LAKE A	76.3	0.10		7.6		7.6	0.7	6.9
CAROLINE 035-06W5								
FIRST WHITE SPECKS A	85.2	<0.03		2.1		2.1	2.1	
CARDIUM A	191.0	<0.02		2.7		2.7	2.7	
CARDIUM B	58.0	<0.09		5.2		5.2	5.2	
CARDIUM C	191.0	<0.05		9.5		9.5	7.9	
CARDIUM D	96.5	<0.04		3.1		3.1	3.1	1.6
CARDIUM E TOTAL	9 139.0			825.0	1 412.0	2 238.0	1 562.7	675.3
PRIMARY AREA	300.0	0.10		30.0		30.0		

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
108	73.20	0.110	0.10	0.68	178	806	107	46 530	3 107.4	1978	81 01
90	68.80	0.058	0.14	0.74	130	816	102	32 520	3 070.1	1978	87 12
5	28.65	0.040	0.15	0.60	195	820	107	33 233	3 101.0	1978	83 10 - SUSP 84 06
157	45.10	0.065	0.13	0.67	183	815	102	34 490	3 068.8	1978	85 07
142	40.00	0.100	0.12	0.46	354	799	108	46 200	3 200.0	1978	81 07
20	22.30	0.045	0.23	0.55	255	813	100	38 230	3 148.5	1978	84 12
102	2.45	0.060	0.10	0.63	189	806	105	43 780	3 133.6	1978	87 12
112	47.10	0.050	0.20	0.50	396	802	102	33 660	3 044.2	1979	80 08
78	20.77	0.120	0.13	0.34	672	788	105	40 977	3 221.8	1982	89 05
97	23.10	0.070	0.12	0.43	417	795	106	34 530	3 296.5	1986	88 04
64	3.40	0.230	0.20	0.93	27	910	34	6 181	865.8	1978	83 12 - SUSP 82 02
64	2.70	0.250	0.20	0.91	35	887	35	6 030	984.6	1985	86 05
64	1.60	0.170	0.41	0.85	60	875	40	6 861	1 058.6	1987	87 05
64	4.20	0.080	0.53	0.92	21	868	40		1 071.5	1987	88 08
16	2.50	0.200	0.35	0.92	30	973	40		1 064.8	1988	88 10 - SUSP 89 04
64	2.80	0.060	0.42	0.85	60	868	40	7 246	1 082.3	1986	87 03 - SUSP 87 10
65	28.65	0.101	0.09	0.83	74	892	59	15 170	1 685.2	1961	69 03 - GPP
66	17.20	0.100	0.15	0.81	83	887	57	14 070	1 676.7	1967	84 04
64	2.00	0.200	0.34	0.85	62	828	42	8 079	1 166.0	1977	88 12
64	1.20	0.230	0.48	0.80	20	888	28	4 139	475.1	1983	88 12 - SUSP 85 05
97	20.00	0.062	0.12	0.66	190	824	91	25 616	2 823.0	1986	89 02
809	3.08	0.174	0.25	0.88	41	870	47	8 450	1 132.0	1949	85 12 - GPP
47	3.96	0.180	0.29	0.91	41	870	47	8 340	1 136.0	1953	85 12 - GPP
32	3.66	0.210	0.22	0.91	41	870	48	8 410	1 142.1	1959	81 12 - GPP
503	4.18	0.213	0.20	0.82	41	870	46	8 270	1 115.9	1951	67 05 - GPP - MRL
534	4.63	0.220	0.20	0.91	41	870	46	7 830	1 115.9	1966	76 12 - GPP
64	6.00	0.210	0.25	0.82	68	894	41	6 890	1 170.0	1988	89 08 - GPP
313	2.57	0.220	0.30	0.90	43	892	35	7 920	1 142.4	1977	80 12 - GPP
64	1.80	0.150	0.30	0.90	38	850	37	5 194	1 143.3	1983	84 09 - ABAND 84 07
64	4.50	0.150	0.50	0.88	45	864	41	8 248	1 102.8	1984	85 04 - GPP
64	6.40	0.250	0.30	0.82	71	844	51		1 114.9	1976	88 01 - SUSP 88 10
64	1.60	0.210	0.57	0.91	39	879	30	7 349	1 072.5	1985	86 05
64	3.80	0.230	0.33	0.88	45	870	46	8 247	1 084.9	1987	87 07
64	1.70	0.180	0.35	0.85	48	854	38	7 389	1 167.9	1981	86 12
64	5.50	0.065	0.30	0.83	69	865	53	11 610	1 574.9	1973	86 12 - GPP
64	5.50	0.065	0.30	0.83	69	865	53	11 631	1 592.8	1978	85 03 - GPP
64	2.00	0.270	0.12	0.40	110	788	51	9 900	1 279.0	1985	85 07
256	7.96	0.110	0.44	0.90	50	930	43	10 532	1 401.4	1983	86 04 - GPP
64	3.20	0.070	0.25	0.71	110	839	85	24 122	2 492.8	1985	86 01
65	2.44	0.120	0.40	0.75	105	881	66	22 170	2 046.1	1975	76 09 - SUSP 76 01
16	12.80	0.151	0.20	0.76	142	797	73	26 030	2 255.5	1961	69 05 - ABAND 67 10
64	3.82	0.039	0.20	0.76	142	801	66	27 240	2 362.8	1965	83 12 - SUSP 82 03
129	1.95	0.158	0.20	0.60	257	784	73	27 550	2 402.7	1973	74 05
64	2.07	0.140	0.20	0.65	186	811	66	27 510	2 378.4	1975	88 12 - SUSP 86 11
9 637					352	797	73	28 880	2 535.3	1974	89 12
283	2.35	0.100	0.15	0.53							

TABLE 2-4

FIELD POOL	1 INITIAL VOLUME IN PLACE 10 ³ m ³	2 3 RECOVERY		4 5 6 INITIAL ESTABLISHED RESERVES			7 CUMULATIVE PRODUCTION 10 ³ m ³	8 REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY frac	ENHANCED frac	PRIMARY 10 ³ m ³	ENHANCED 10 ³ m ³	TOTAL 10 ³ m ³		
CAROLINE 035-06W5 (CONTINUED)								
SOLVENT FLOOD AREA	4 400.0	0.09	0.21	396.0	924.0	1 320.0		
WATER FLOOD AREA	4 439.0	0.09	0.11	399.9	487.9	887.9		
CARDIUM F	530.0	0.15		71.6		71.6	47.9	23.7
CARDIUM G	101.0	<0.02		1.7		1.7	1.7	
CARDIUM H	65.9	<0.04		2.5		2.5	2.5	
CARDIUM I	94.2	0.15		14.1		14.1	6.9	7.2
SECOND WHITE	164.0	<0.01		0.9		0.9	0.9	
SPECKS A								
SECOND WHITE	75.3	0.15		11.3		11.3	0.8	10.5
SPECKS B								
VIKING A	9 800.0	0.12		1 180.0		1 180.0	944.3	235.7
VIKING F	157.0	0.10		15.7		15.7	10.6	5.1
VIKING G	219.0	<0.13		27.1		27.1	2.1	25.0
VIKING H	82.2	<0.06		4.8		4.8	4.8	
VIKING I	140.0	<0.02		1.7		1.7	1.7	
VIKING J	157.0	<0.02		2.0		2.0	2.0	
VIKING L	73.9	0.15		11.1		11.1	8.9	2.2
VIKING M	164.0	0.01		1.6		1.6	0.6	1.0
VIKING N	37.3	<0.01		0.3		0.3	0.3	
VIKING O	122.0	0.10		12.2		12.2	2.3	9.9
VIKING P	89.1	<0.01		0.4		0.4	0.4	
VIKING R	50.0	0.20		10.0		10.0	2.4	7.6
VIKING S	500.0	0.20		100.0		100.0	51.4	48.6
VIKING T	382.0	0.10		38.2		38.2	21.8	16.4
VIKING U	214.0	0.10		21.4		21.4	6.0	15.4
VIKING W	72.2	<0.01		0.6		0.6	0.6	
VIKING X	1 256.0	0.10		126.0		126.0	57.1	68.9
VIKING Y	96.0	0.10		9.6		9.6	0.3	9.3
UPPER MANNVILLE A	187.0	<0.01		0.4		0.4	0.4	
BASAL MANNVILLE W	211.0	<0.01		0.1		0.1	0.1	
BASAL MANNVILLE TTT MU #3	195.0	0.20		39.0		39.0	27.8	11.2
BASAL MANNVILLE A2A	161.0	0.05		8.1		8.1	1.1	7.0
BASAL MANNVILLE C2C, D2D, E2E & F2F	141.0	0.10		14.1		14.1	1.3	12.8
BASAL MANNVILLE G2G, H2H & I2I	118.0	0.10		11.8		11.8	2.4	9.4
BASAL MANNVILLE N3N	153.0	0.15		23.0		23.0	12.4	10.6
BASAL MANNVILLE O3O	207.0	0.15		31.1		31.1	15.8	15.3
RUNDLE A TOTAL	26 310.0			5 261.0	3 960.0	9 221.0	8 057.4	1 163.6
PRIMARY AREA	6 505.0	0.20		1 301.0		1 301.0		
WATER FLOOD AREA	19 800.0	0.20	0.20	3 960.0	3 960.0	7 920.0		
RUNDLE C	129.0	0.10		12.9		12.9	1.6	11.3
RUNDLE D	375.0	0.15		56.3		56.3	34.8	21.5
ELKTON M	461.0	0.15		69.2		69.2	29.4	39.8
CARROT CREEK 052-13W5								
CARDIUM A TOTAL	868.0			104.4	105.0	209.0	117.3	91.7
PRIMARY AREA	64.0	0.12		7.6		7.6		
WATER FLOOD AREA	804.0	0.12	0.13	97.0	104.0	201.0		
CARDIUM B	121.0	0.17		20.8	ERSO	20.8	19.3	1.5
CARDIUM C	636.0	0.05		31.8		31.8	23.3	8.5
CARDIUM D TOTAL	3 000.0	0.10		300.0	495.0	795.0	182.1	612.9
PRIMARY AREA	525.0	<0.10		52.0		52.0		
WATER FLOOD AREA	2 475.0	0.10	0.20	248.0	495.0	743.0		
CARDIUM E TOTAL	442.0			66.4	43.3	110.0	53.6	56.4
PRIMARY AREA	9.1	0.15		1.4		1.4		
WATER FLOOD AREA	433.0	0.15	0.10	65.0	43.3	108.0		
CARDIUM F TOTAL	5 460.0			820.0	632.0	1 452.0	691.6	760.4
PRIMARY AREA	2 300.0	0.15		345.0		345.0		
WATER FLOOD AREA	3 160.0	0.15	0.20	474.0	632.0	1 106.0		
CARDIUM H	151.0	0.10		15.1		15.1	1.3	13.8
CARDIUM I	173.0	0.10		17.3		17.3	14.7	2.6
CARDIUM K TOTAL	2 500.0			300.0	460.0	760.0	175.7	584.3
PRIMARY AREA	200.0	0.12		24.0		24.0		
WATER FLOOD AREA	2 300.0	0.12	0.20	276.0	460.0	736.0		
CARDIUM N	84.4	<0.02		1.4		1.4	1.4	
CARDIUM S	435.0	0.10		43.5		43.5	13.5	30.0
CARDIUM V	162.0	<0.01		0.1		0.1		0.1
CARDIUM AA	85.6	0.10		8.6		8.6	3.7	4.9
CARDIUM DD	113.0	0.10		11.3		11.3	7.1	4.2

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
5 107	1.86	0.103	0.15	0.53							
4 247	2.25	0.103	0.15	0.53							
467	3.06	0.080	0.20	0.58	246	801	77	28 030	2 451.9	1976	88 12 -
64	3.05	0.110	0.15	0.55	312	801	69	22 090	2 429.4	1975	78 02 - SUSP 83 06
65	1.83	0.120	0.20	0.58	246	801	74	21 930	2 412.2	1975	88 12 - SUSP 86 11
64	2.10	0.110	0.15	0.75	140	836	70	22 271	2 521.8	1985	87 04
64	5.00	0.100	0.30	0.73	120	820	65	20 380	2 621.5	1979	81 12 - ABAND 83 07
64	7.00	0.030	0.20	0.70	127	796	75		2 298.5	1988	89 03
7 744	3.10	0.080	0.30	0.73	89	825	89	17 000	2 663.0	1962	80 08 - GPP
98	3.05	0.100	0.30	0.75	89	825	89	16 980	2 471.0	1968	83 06 - GPP
192	3.23	0.076	0.38	0.75	139	793	77	17 580	2 716.6	1977	82 04 - GPP
64	4.74	0.070	0.47	0.73	110	724	85	21 781	2 786.9	1979	80 06 - ABAND 83 01
64	7.02	0.074	0.37	0.67	200	788	60	17 323	2 714.5	1978	83 12 - ABAND 80 11
64	6.50	0.070	0.25	0.72	125	849	60	17 020	2 677.5	1980	83 09 - SUSP 86 04
64	3.70	0.080	0.35	0.60	213	844	85	16 880	2 457.3	1955	82 11 - GPP
64	6.10	0.100	0.30	0.60	210	844	66	20 041	2 417.0	1962	83 12 - GPP
64	1.90	0.069	0.26	0.60	200	839	85	16 880	2 457.2	1985	88 12 - SUSP 86 05
64	7.50	0.065	0.35	0.60	195	803	89	19 247	2 574.7	1982	82 11
64	3.00	0.090	0.23	0.67	181	808	78	17 640	2 583.0	1986	89 12 - SUSP 87 04
64	2.48	0.060	0.30	0.75	120	816	87	20 935	2 723.0	1987	89 12
673	2.54	0.060	0.35	0.75	120	816	87	27 365	2 787.3	1980	88 12
256	4.36	0.070	0.27	0.67	181	816	87	18 307	2 481.4	1980	84 01
64	5.80	0.100	0.20	0.72	128	849	59	18 758	2 422.4	1981	82 03
64	3.21	0.069	0.24	0.67	181	808	87	18 400	2 486.5	1985	89 12 - SUSP 86 10
1 019	3.23	0.078	0.27	0.67	181	808	87	18 179	2 507.5	1987	89 01
64	3.00	0.100	0.25	0.67	181	808	87	18 400	2 480.5	1986	88 12
64	4.00	0.130	0.12	0.64	181	863	81	27 724	2 718.9	1981	86 12 - SUSP 85 08
64	5.00	0.110	0.22	0.77	78	811	110	14 500	2 839.5	1980	88 12 - SUSP 86 02
96	2.70	0.130	0.25	0.77	483	811	92	30 697	2 698.0	1959	88 12 - GPP
64	3.90	0.130	0.20	0.62	191	806	88	27 489	2 724.7	1982	87 12 - GPP
64	4.60	0.090	0.24	0.70	191	807	88	29 133	2 542.7	1986	87 01 - GPP
64	2.70	0.120	0.19	0.70	191	807	88	30 400	2 555.0	1986	87 01 - GPP
64	5.82	0.073	0.25	0.75	105	830	88	28 698	2 800.6	1981	84 12
64	4.90	0.100	0.12	0.75	125	832	92	28 850	2 916.6	1981	84 12
7 375					130	844	91	25 370	2 720.3	1955	89 12
2 949	6.08	0.070	0.29	0.73							- GPP
4 426	8.20	0.090	0.17	0.73							
64	8.20	0.050	0.30	0.70	195	863	93	27 806	2 801.9	1985	86 01
163	4.75	0.080	0.17	0.73	127	865	90	22 255	2 735.3	1960	89 02
64	10.30	0.120	0.19	0.72	150	847	31	23 526	2 724.9	1985	86 11
403					53	834	57	10 310	1 661.2	1963	88 12 - GPP
32	3.20	0.100	0.27	0.85							
371	4.80	0.072	0.27	0.85							
130	2.21	0.065	0.20	0.81	62	829	61	10 480	1 661.2	1966	89 12 - GPP
259	3.96	0.080	0.10	0.86	57	849	70	9 980	1 614.2	1973	75 12 - GPP
960					65	844	52	10 450	1 596.4	1973	89 01
254	3.52	0.082	0.15	0.84							
706	5.99	0.082	0.15	0.84							
196					78	835	57	10 539	1 636.1	1980	88 07
63	0.56	0.036	0.13	0.83							
133	7.54	0.060	0.13	0.83							
1 870					65	854	56	10 247	1 613.6	1973	89 05
710	5.04	0.090	0.14	0.83							
1 160	4.24	0.090	0.14	0.83							
128	5.20	0.040	0.27	0.77	63	840	57	8 997	1 603.1	1988	88 11 - GPP
64	4.99	0.071	0.10	0.86	53	834	57	7 236	1 510.0	1967	84 12
837					50	838	68	10 889	1 769.2	1983	88 06
128	3.03	0.072	0.15	0.84							
709	6.31	0.072	0.15	0.84							
64	2.65	0.065	0.11	0.86	78	835	57	8 710	1 641.6	1981	83 11 - SUSP 85 07
192	3.74	0.080	0.11	0.85	65	836	56	12 335	1 520.4	1984	85 11
64	3.00	0.110	0.10	0.85	50	838	68	9 020	1 628.4	1984	84 12 - ABAND 88 11
128	1.69	0.066	0.25	0.80	48	842	68	9 051	1 564.2	1984	85 08 - GPP
20	11.40	0.083	0.30	0.85	50	852	68	10 515	1 586.6	1985	88 08

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
CARROT CREEK 052-13W5 (CONTINUED)								
CARDIUM EE	669.0	0.15		100.0		100.0	23.9	76.1
CARDIUM FF	186.0	0.10		18.6		18.6	1.9	16.7
CARDIUM GG	656.0	0.15		98.4		98.4	26.1	72.3
CARDIUM HH	276.0	0.15		41.4		41.4	7.7	33.7
CARDIUM JJ	598.0	0.15		89.7		89.7	9.8	79.9
CARDIUM KK	256.0	0.10		25.6		25.6	7.0	18.6
CARDIUM LL	203.0	0.10		20.3		20.3	6.1	14.2
CARDIUM MM	213.0	0.10		21.3		21.3	4.4	16.9
CARDIUM NN	286.0	0.10		28.6		28.6	1.9	26.7
CARDIUM OO	42.4	<0.02		1.0		1.0	1.0	
CARDIUM PP	294.0	0.15		44.1		44.1	7.4	36.7
CARDIUM QQ	55.0	0.10		5.5		5.5	4.7	0.8
LOWER MANNVILLE A	301.0	0.01		3.0		3.0	2.4	0.6
LOWER MANNVILLE B	221.0	<0.01		0.8		0.8	0.8	
LOWER MANNVILLE C	213.0	0.05		10.7		10.7	3.5	7.2
LOWER MANNVILLE N	73.7	0.10		7.4		7.4	1.3	6.1
LOWER MANNVILLE T	174.0	<0.02		2.2		2.2	2.2	
LOWER MANNVILLE V	154.0	0.10		15.4		15.4	4.9	10.5
LOWER MANNVILLE W	234.0	0.10		23.4		23.4	0.9	22.5
LOWER MANNVILLE M.	4 600.0	0.08		368.0		368.0	169.2	198.8
JURASSIC O.P.V & W								
JURASSIC A	213.0	<0.01		0.2		0.2	0.2	
JURASSIC X, AA & CC	254.0	0.10		25.4		25.4	3.2	22.2
CARSON CREEK 061-11W5								
VIKING A	315.0	0.10		31.5		31.5	5.9	25.6
CARSON CREEK NORTH 062-12W5								
BEAVERHILL	60 200.0			9 030.0	18 500.0	27 530.0	22 773.7	4 756.3
LAKE A & B TOTAL								
PRIMARY AREA	198.0	0.15		29.7		29.7		
WATER FLOOD AREA	60 000.0	0.15	0.30	9 000.0	18 500.0	27 500.0		
CARSTAIRS 030-02W5								
CARDIUM A	240.0	0.03		7.2		7.2	2.8	4.4
CARDIUM B	23.3	<0.01		0.2		0.2	0.2	
BLACKSTONE A	129.0	<0.01		0.1		0.1	0.1	
VIKING B	200.0	0.10		20.0		20.0	15.8	4.2
VIKING C	131.0	0.10		13.1		13.1	4.8	8.3
CAVALIER 024-23W4								
GLAUCONITIC A	449.0	0.10		44.9		44.9	18.2	26.7
CECIL 084-08W6								
CHARLIE LAKE A	10 520.0	0.20		2 104.0		2 104.0	312.5	1 791.5
CHARLIE LAKE B	359.0	<0.01		0.3		0.3	0.3	
CHARLIE LAKE C	152.0	0.10		15.2		15.2	0.2	15.0
CHARLIE LAKE D	61.5	0.10		6.2		6.2	0.3	5.9
CHARLIE LAKE L	1 244.0	0.15		187.0		187.0	21.3	165.7
CHARLIE LAKE M	2 208.0	0.15		331.0		331.0		331.0
CESSFORD 025-13W4								
VIKING Y	145.0	<0.01		0.1		0.1	0.1	
GLAUCONITIC T & MANNVILLE HH	191.0	0.03		5.7		5.7	3.2	2.5
BANFF B	6 800.0	0.10		680.0		680.0	258.3	421.7
BANFF E	125.0	0.10		12.5		12.5	1.8	10.7
BANFF F	147.0	<0.01		0.1		0.1		0.1
CHAIN 033-17W4								
VIKING A	49.5	<0.01		0.1		0.1		0.1
VIKING D	516.0	0.12		61.9		61.9	46.4	15.5
VIKING E	61.9	<0.01		0.1		0.1	0.1	
VIKING F	138.0	0.10		13.8		13.8	4.1	9.7
BANFF A	3 100.0	0.15		465.0		465.0	138.6	326.4
BANFF B	108.0	0.10		10.8		10.8	4.6	6.2
BANFF D	97.8	0.20		19.6		19.6	8.1	11.5
BANFF E	27.6	<0.01		0.2		0.2	0.2	
BANFF F	181.0	0.15		27.2		27.2	1.9	25.3
BANFF G	124.0	0.15		18.6		18.6	6.8	11.8

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
128	9.32	0.070	0.10	0.89	51	845	56	9 099	1 597.9	1985	86 07
64	2.70	0.170	0.21	0.80	104	826	63	9 063	1 565.5	1983	85 10
320	4.53	0.074	0.28	0.85	54	837	57	10 486	1 578.7	1983	88 07
64	9.65	0.075	0.30	0.85	61	819	60	10 469	1 563.3	1985	88 03
128	10.47	0.070	0.25	0.85	61	819	60	10 545	1 579.2	1986	87 02
192	3.19	0.063	0.22	0.85	61	819	60	9 831	1 548.6	1986	88 03
64	4.80	0.095	0.18	0.85	60	839	34	1 554.6	1987	87 12	
64	5.70	0.081	0.15	0.85	75	849	56	11 732	1 401.5	1985	86 10
64	9.23	0.076	0.25	0.85	55	834	59	8 955	1 543.2	1987	88 01
64	1.00	0.120	0.35	0.85	61	819	60	9 815	1 578.2	1985	88 03 - ABAND 88 10
64	7.50	0.090	0.20	0.85	61	819	60	1 591.5	1987	88 12	
11	9.22	0.070	0.10	0.86	46	793	57	1 662.2	1966	89 12	
64	6.40	0.150	0.30	0.70	135	835	62	15 560	2 182.5	1978	82 12 - GPP
64	6.40	0.140	0.45	0.70	125	842	82	17 910	2 175.2	1979	85 09 - SUSP 84 05
64	6.04	0.120	0.35	0.70	168	814	63	16 517	2 223.0	1979	83 12 - GPP
64	2.30	0.130	0.45	0.70	130	884	86	17 794	2 180.9	1980	82 03 - GPP
64	5.00	0.120	0.38	0.73	110	846	59	15 978	2 129.3	1981	88 12 - SUSP 85 10
64	5.20	0.096	0.35	0.74	105	826	78	17 114	2 100.0	1986	87 03
64	7.30	0.110	0.35	0.70	125	844	84	16 208	2 166.6	1987	87 12
1 054	8.61	0.110	0.36	0.72	53	834	57	16 999	2 127.4	1976	84 04
64	7.00	0.100	0.35	0.73	125	850	60	16 995	2 187.5	1979	83 12 - ABAND 80 02
64	7.50	0.130	0.45	0.74	115	864	60	16 853	2 192.8	1979	85 03 - GPP
128	2.70	0.166	0.37	0.87	50	836	56	8 329	1 378.8	1988	88 09 - GPP
7 228					274	806	88	25 880	2 662.7	1958	89 12
128	3.84	0.080	0.16	0.60							- GPP
7 100	21.93	0.080	0.14	0.56							
64	6.00	0.130	0.35	0.74	119	836	66	22 297	1 981.0	1983	86 12
64	1.00	0.070	0.35	0.80	82	854	59	16 512	1 956.5	1983	84 10 - SUSP 84 08
64	4.50	0.080	0.30	0.80	85	844	61	20 904	2 037.0	1983	85 03 - SUSP 85 06
128	2.72	0.110	0.37	0.83	68	835	71	13 708	2 206.8	1958	89 07
64	3.00	0.150	0.45	0.83	68	835	71	12 017	2 175.0	1980	84 04 - GPP
128	2.82	0.190	0.21	0.83	70	871	49	11 806	1 586.3	1979	83 06 - GPP
2 480	4.40	0.150	0.27	0.88	44	907	46	10 038	1 094.0	1987	89 06
64	6.39	0.170	0.37	0.82	54	898	42	9 286	864.8	1987	87 12 - ABAND 89 07
32	7.60	0.134	0.47	0.88	45	912	46	10 185	1 152.4	1987	88 08 - SUSP 88 11
32	4.00	0.107	0.49	0.88	45	912	46	10 369	1 154.3	1982	88 08 - SUSP 89 10
507	2.78	0.160	0.38	0.89	44	849	45	9 625	1 091.8	1988	89 06
561	3.15	0.180	0.22	0.89	44	849	45	9 500	1 081.9	1988	89 06
64	2.80	0.150	0.40	0.90	40	850	30	7 260	860.9	1985	86 06 - SUSP 86 01
64	5.00	0.140	0.48	0.82	70	863	47	9 062	1 274.8	1972	85 12
2 501	3.92	0.145	0.45	0.87	46	877	40	9 988	1 282.1	1973	82 07
64	2.20	0.160	0.37	0.88	55	857	50	8 159	1 232.8	1985	86 05 - GPP
64	8.50	0.050	0.38	0.87	50	859	40	8 923	1 317.5	1987	88 07 - ABAND 87 07
64	1.00	0.150	0.40	0.86	50	838	42	6 594	1 067.3	1974	85 10 - ABAND 86 05
632	0.90	0.170	0.38	0.86	62	834	34	8 210	1 125.6	1977	86 10
64	2.50	0.090	0.50	0.86	53	838	39	8 123	1 142.3	1983	89 12 - SUSP 83 10
64	1.60	0.230	0.32	0.86	55	832	36	8 205	1 159.8	1985	86 03
768	9.60	0.070	0.23	0.78	112	865	40	13 928	1 259.5	1984	87 02
64	2.50	0.140	0.40	0.80	50	860	38	9 393	1 236.8	1985	86 03 - GPP
64	4.00	0.070	0.30	0.78	112	856	43	8 350	1 297.3	1985	87 12
64	2.50	0.050	0.54	0.75	113	860	40	8 917	1 240.8	1985	89 12 - SUSP 87 01
64	10.30	0.050	0.27	0.75	113	868	40	9 195	1 249.1	1977	86 11
64	7.20	0.060	0.40	0.75	88	860	40	9 468	1 309.0	1987	88 12

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE 10 ³ m ³	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION 10 ³ m ³	REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
		frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³		
CHAMBERLAIN 052-23W4 BLAIRMORE	509.0	0.06		30.5		30.5	27.8	2.7
CHEDDERSVILLE 037-07W5								
CARDIUM A	75.2	0.10		7.5		7.5	0.5	7.0
VIKING A	223.0	0.15		33.5		33.5	3.8	29.7
VIKING B	86.0	0.10		8.6		8.6	2.5	6.1
VIKING C	73.9	0.15		11.0		11.0		11.0
CHERRILL 056-05W5								
VIKING C	101.0	0.15		15.2		15.2	13.9	1.3
VIKING D	124.0	<0.01		1.1		1.1	1.1	
DETRITAL A	58.1	0.10		5.8		5.8	1.4	4.4
BANFF A TOTAL	9 790.0			1 789.0	1 215.0	3 004.0	1 594.7	1 409.3
PRIMARY AREA	1 690.0	0.10		169.0		169.0		
WATER FLOOD AREA	8 100.0	0.20	0.15	1 620.0	1 215.0	2 835.0		
BANFF H	8 006.0	0.04		320.0		320.0	123.3	196.7
BANFF J	109.0	<0.05		5.2		5.2	5.2	
BANFF M	1 080.0	0.20		216.0		216.0	117.3	98.7
BANFF P	327.0	<0.01		0.1		0.1	0.1	
CHICKADEE 061-16W5 GETHING D	88.1	<0.01		0.2		0.2	0.2	
CHICKEN 061-07W6								
CHINOOK A	157.0	0.10		15.7		15.7	1.9	13.8
CHINOOK B	172.0	0.10		17.2		17.2	0.3	16.9
CHIGWELL 041-24W4								
VIKING B TOTAL	2 370.0			284.0	127.0	411.0	264.3	146.7
PRIMARY AREA	1 310.0	0.12		157.0		157.0		
WATER FLOOD AREA	1 060.0	0.12	0.12	127.0	127.0	254.0		
VIKING D	89.5	<0.05		4.2		4.2	4.2	
VIKING E	8 150.0	0.05		408.0		408.0	231.4	176.6
VIKING F	226.0	<0.01		0.3		0.3	0.3	
MANNVILLE G	134.0	<0.01		0.2		0.2	0.2	
MANNVILLE H	289.0	0.10		28.9		28.9	13.6	15.3
MANNVILLE I	169.0	0.02		3.4		3.4	3.1	0.3
MANNVILLE K	45.9	0.05		2.3		2.3	1.2	1.1
MANNVILLE E & UPPER MANNVILLE A	8 290.0	0.07		580.0		580.0	333.4	246.6
UPPER MANNVILLE B	275.0	0.03		8.3		8.3	4.3	4.0
UPPER MANNVILLE C	261.0	<0.01		0.2		0.2	0.2	
GLAUCONITIC A	114.0	<0.01		0.5		0.5	0.5	
D-2 A	473.0	0.20		94.6		94.6	64.8	29.8
D-2 B	116.0	0.10		11.6		11.6	8.0	3.6
D-2 C	499.0	0.12		59.9		59.9	55.1	4.8
D-2 D	98.5	<0.03		2.0		2.0	2.0	
D-3 A	108.0	<0.05		4.8		4.8	4.8	
D-3 B	538.0	0.35		188.0		188.0	161.7	26.3
D-3 C	254.0	<0.01		0.4		0.4	0.4	
D-3 E	228.0	0.45		103.0		103.0	60.1	42.9
D-3 F	74.2	<0.01		0.1		0.1		0.1
CHIGWELL NORTH 042-24W4								
D-3 A	110.0	<0.01		0.5		0.5	0.5	
CHIP LAKE 053-10W5								
ROCK CREEK A	444.0	0.10		44.4		44.4	8.8	35.6
ROCK CREEK B	735.0	0.10		73.5		73.5	7.0	66.5
CINDY 077-01W6								
DEBOLT A	959.0	0.10		95.9		95.9	3.1	92.8
D-1 A	480.0	0.20		96.0		96.0	4.3	91.7
D-1 B	426.0	0.10		42.6		42.6	8.7	33.9
CLARESHOLM 013-26W4								
BARONS A	300.0	0.20		60.0		60.0	36.7	23.3
BARONS B	15.5	0.10		1.6		1.6	0.3	1.3
GLAUCONITIC C	58.7	0.10		5.9		5.9	2.7	3.2
RUNDLE A	1 920.0	0.04		76.8		76.8	50.6	26.2
RUNDLE B	1 340.0	0.03		40.2		40.2	32.7	7.5

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
45	7.53	0.252	0.32	0.88	41	892	46	8 210	1 126.5	1952	68 05 - GPP
64	1.70	0.120	0.20	0.72	115	815	70	22 390	2 253.2	1985	86 03
128	4.59	0.080	0.35	0.73	115	815	63	17 278	2 593.0	1987	89 07
64	2.60	0.100	0.37	0.82	68	741	64	17 978	2 642.9	1987	88 08
64	2.48	0.080	0.29	0.82	207	809	92		2 528.4	1988	89 06
64	1.24	0.190	0.20	0.84	62	844	56	8 140	1 140.6	1974	83 12
64	1.86	0.160	0.25	0.87	55	849	38	7 515	1 157.3	1977	83 12 - ABAND 89 03
64	1.00	0.170	0.40	0.89	74	867	45	11 140	1 304.8	1983	86 10
1 066					64	871	48	11 310	1 322.6	1966	88 01
261	8.11	0.150	0.30	0.76							
805	12.61	0.150	0.30	0.76							
1 279	5.71	0.200	0.37	0.87	68	825	41	11 019	1 370.6	1973	89 02
32	4.57	0.140	0.30	0.76				10 035	1 345.9	1968	82 09 - SUSP 84 07
256	7.30	0.110	0.35	0.81	82	863	41	11 296	1 326.2	1982	88 01
64	3.70	0.240	0.33	0.86	48	892	64	10 904	1 351.2	1984	88 12 - SUSP 86 01
64	2.73	0.120	0.40	0.70	156	824	82	13 613	1 830.4	1980	88 12 - SUSP 86 05
64	5.95	0.120	0.51	0.70	120	710	54	11 424	1 938.4	1987	88 03
64	4.22	0.157	0.42	0.70	133	809	44		1 951.6	1988	88 09
1 379					50	844	46	7 830	1 425.9	1959	85 09
800	2.34	0.130	0.40	0.90							
579	2.60	0.130	0.40	0.90							
64	3.20	0.120	0.60	0.91	34	830	58	7 975	1 464.6	1982	89 12 - ABAND 88 09
3 376	3.24	0.130	0.37	0.91	34	858	58	8 000	1 403.3	1980	89 03
64	5.70	0.120	0.40	0.86	48	817	57	5 482	1 420.9	1983	85 08 - SUSP 84 07
65	1.83	0.150	0.15	0.89	39	910	51	12 410	1 648.7	1977	77 06 - ABAND 78 05
64	4.00	0.170	0.20	0.83	59	915	63	12 392	1 595.1	1978	78 10
64	2.20	0.170	0.15	0.83	58	850	63	14 135	1 627.3	1978	82 12 - GPP
64	1.20	0.180	0.60	0.83	59	874	63	11 442	1 572.8	1985	86 06 - SUSP 89 05
5 376	1.51	0.150	0.18	0.83	33	921	48	13 450	1 581.6	1976	83 02 - GPP
65	3.35	0.180	0.15	0.83	59	915	63	13 410	1 602.3	1977	80 12 - GPP
64	4.00	0.150	0.20	0.85	80	700	60	7 660	1 443.0	1979	80 06 - ABAND 81 01
64	2.00	0.150	0.30	0.85	54	899	62	14 877	1 539.5	1980	83 12 - SUSP 81 12
117	10.63	0.065	0.22	0.75	106	829	70	15 860	1 848.0	1955	84 01 - GPP
65	2.59	0.140	0.42	0.85	106	829	71	16 890	1 882.4	1959	73 02 - GPP
404	4.57	0.045	0.25	0.80	83	829	72	16 930	1 871.8	1968	83 12 - GPP
65	3.96	0.060	0.20	0.80	83	829	57	14 070	1 872.7	1974	75 08 - SUSP 77 07
128	3.02	0.050	0.19	0.69	147	820	60	17 380	1 943.7	1964	83 09 - ABAND 83 09
90	12.16	0.080	0.18	0.75	105	855	63	16 840	1 938.5	1968	89 12 - GPP
64	5.50	0.110	0.10	0.73	110	844	65	19 125	2 131.3	1981	82 03 - SUSP 81 12
83	7.30	0.062	0.17	0.73	129	834	71	14 270	1 907.8	1984	89 12
64	2.30	0.070	0.10	0.80	81	874	56	15 923	1 850.2	1986	87 04 - ABAND 87 08
64	4.50	0.070	0.25	0.73	120	844	59	13 653	1 843.3	1980	82 03 - SUSP 84 07
64	10.50	0.125	0.34	0.80	85	838	58	18 475	1 810.0	1981	82 04
128	6.92	0.140	0.26	0.80	93	841	60	17 240	1 849.5	1978	89 08
128	6.66	0.210	0.20	0.67	163	832	64	15 824	1 534.4	1987	89 06
64	21.80	0.050	0.14	0.80	72	842	70	22 049	2 118.9	1985	85 05
32	59.50	0.040	0.30	0.80	68	838	69	22 632	2 136.8	1984	89 12
114	3.80	0.130	0.22	0.68	150	810	51	13 657	2 109.7	1980	84 04
64	0.70	0.050	0.10	0.77	110	813	70	13 784	2 083.6	1987	88 06 - SUSP 88 11
64	1.30	0.120	0.30	0.84	65	857	50	8 486	1 780.7	1980	82 12
129	28.96	0.086	0.16	0.71	131	844	55	19 700	2 065.9	1972	78 12 - GPP
194	14.11	0.081	0.15	0.71	131	844	54	19 650	2 065.6	1972	78 12

TABLE 2-4

FIELD POOL	1	2	3	4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
CLARESHOLM 013-26W4 (CONTINUED)								
RUNDLE C	56.1	<0.08		4.2		4.2	4.2	
RUNDLE F	186.0	<0.03		3.8		3.8	3.8	
CLEAR PRAIRIE 091-12W6								
GETHING A	304.0	0.05		15.2		15.2	0.2	15.0
TRIASSIC A	186.0	0.10		18.6		18.6	0.3	18.3
CLIVE 040-24W4								
GLAUCONITIC A	195.0	<0.01		0.1		0.1		0.1
GLAUCONITIC B	64.0	<0.01		0.1		0.1	0.1	
GLAUCONITIC C	242.0	0.05		12.1		12.1	7.3	4.8
D-2 A TOTAL	7 742.0			2 638.0	895.0	3 533.0	2 599.8	933.2
PRIMARY AREA	282.0	0.10		28.2		28.2		
WATER FLOOD AREA	7 460.0	0.35	0.12	2 610.0	895.0	3 505.0		
D-2 B TOTAL	683.0			126.0	50.0	176.0	171.5	4.5
PRIMARY AREA	183.0	<0.01		1.0		1.0		
WATER FLOOD AREA	500.0	0.25	0.10	125.0	50.0	175.0		
D-2 C	34.8	<0.07		2.2		2.2	2.2	
D-3 A TOTAL	13 400.0			5 020.0	1 970.0	6 990.0	5 630.4	1 359.6
PRIMARY AREA	1 060.0	0.08		84.8		84.8		
WATER FLOOD AREA	12 300.0	<0.50	0.16	4 940.0	1 970.0	6 910.0		
CLOVER 061-17W5								
GETHING A	60.5	<0.01		0.1		0.1	0.1	
CORNWALL 070-26W5								
GILWOOD A	204.0	0.20		40.8		40.8	2.5	38.3
COSWAY 030-26W4								
RUNDLE A	91.3	<0.01		0.3		0.3	0.3	
RUNDLE B	118.0	<0.01		0.2		0.2	0.2	
COUTTS 001-16W4								
MOULTON A TOTAL	1 545.0			315.0	294.0	609.0	517.8	91.2
PRIMARY AREA	75.0	0.28		21.0		21.0		
WATER FLOOD AREA	1 470.0	0.20	0.20	294.0	294.0	588.0		
MOULTON B	89.0	<0.01		0.7		0.7	0.7	
MOULTON C	1 560.0	0.05		78.0		78.0	41.7	36.3
CUTBANK A	30.2	0.10		3.0		3.0	1.0	2.0
CUTBANK B	155.0	0.10		15.5		15.5	0.6	14.9
COYOTE 029-15W4								
GLAUCONITIC G	94.1	<0.01		0.1		0.1	0.1	
BANFF A	70.3	<0.01		0.3		0.3	0.3	
BANFF B	628.0	<0.01		0.1		0.1	0.1	
CRAIGMYLE 032-16W4								
OSTRACOD B	299.0	0.10		29.9		29.9	1.1	28.8
ELLERSLIE E	187.0	0.10		18.7		18.7	1.0	17.7
DETRITAL B	177.0	<0.01		0.2		0.2	0.2	
DETRITAL C	348.0	0.10		34.8		34.8		34.8
DETRITAL D	303.0	0.10		30.3		30.3	0.1	30.2
BANFF A	217.0	0.10		21.7		21.7	7.9	13.8
BANFF B	156.0	0.10		15.6		15.6	5.3	10.3
BANFF E	176.0	0.10		17.6		17.6	0.1	17.5
BANFF F	507.0	0.15		76.1		76.1	16.4	59.7
BANFF G	79.4	<0.01		0.1		0.1	0.1	
BANFF H	180.0	0.10		18.0		18.0	0.1	17.9
BANFF I	893.0	0.15		134.0		134.0	32.9	101.1
BANFF K	484.0	0.12		58.1		58.1	20.5	37.6
BANFF L	113.0	<0.01		0.7		0.7	0.7	
BANFF M	31.5	<0.01		0.1		0.1	0.1	
BANFF N	79.0	0.10		7.9		7.9	0.2	7.7
BANFF O	360.0	<0.01		0.2		0.2	0.2	
BANFF Q	85.4	0.05		4.3		4.3	0.6	3.7
CRANBERRY 026-01W5								
GILWOOD A	96.1	0.20		19.2		19.2	11.3	7.9

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
65	3.05	0.060	0.35	0.73	128	849	60	20 540	2 068.1	1968	73 01 - SUSP 85 09
64	13.00	0.035	0.15	0.75	135	863	67	24 479	2 180.0	1980	81 10 - ABAND 82 05
64	3.70	0.230	0.38	0.90	35	882	36	7 693	1 090.6	1975	89 06
64	3.00	0.200	0.45	0.88	43	894	49	8 140	1 052.3	1979	89 06
64	4.00	0.130	0.35	0.90	35	881	62	11 451	1 585.1	1978	79 01 - ABAND 79 09
64	1.40	0.120	0.30	0.85	58	881	62	11 370	1 578.7	1978	83 12 - SUSP 79 03
64	3.60	0.160	0.27	0.90	35	881	45	10 189	1 520.0	1982	87 05 - GPP
3 395	9.00	0.049	0.20	0.69	148	820	69	17 000	1 868.4	1951	88 08
115	8.24	0.050	0.20	0.69							
3 280	8.24	0.050	0.20	0.69							
322	5.89	0.080	0.12	0.69	148	820	68	16 410	1 841.4	1966	87 03 - GPP
64	6.12	0.052	0.12	0.69							
258	1.22	0.080	0.20	0.69	142	820	67	17 070	1 886.4	1965	70 05 - ABAND 67 01
65					155	825	66	17 510	1 898.0	1952	84 12
4 546	10.30	0.055	0.20	0.69							
339	9.63	0.055	0.20	0.69							
4 207											
64	1.50	0.150	0.40	0.70	156	824	82	15 461	2 018.0	1980	83 12 - SUSP 83 12
64	4.80	0.100	0.20	0.83	100	844	95	26 632	3 196.4	1983	84 06
64	5.80	0.050	0.40	0.82	72	869	59	11 933	1 753.1	1978	79 05 - SUSP 79 06
64	6.10	0.060	0.38	0.81	78	868	61	11 855	1 767.5	1988	88 10 - ABAND 88 10
250					55	825	29	6 520	783.3	1966	88 02
15	4.37	0.190	0.30	0.86							
235	5.47	0.190	0.30	0.86							
64	2.16	0.150	0.50	0.86	64	825	29	6 370	766.0	1970	83 12 - ABAND 86 04
128	9.98	0.200	0.29	0.86	55	825	27	5 800	757.2	1972	89 12
64	0.60	0.140	0.34	0.85	55	820	27	7 023	784.5	1988	88 07
64	2.00	0.190	0.25	0.85	55	820	27	6 867	784.0	1988	89 01
64	1.50	0.220	0.45	0.81	64	876	43	9 300	1 296.8	1982	84 02 - SUSP 85 02
64	3.00	0.080	0.48	0.88	33	859	47	8 829	1 295.0	1985	85 09 - ABAND 87 01
64	26.80	0.070	0.33	0.78	60	876	45	8 925	1 303.6	1986	86 08 - SUSP 86 08
64	4.50	0.270	0.50	0.77	40	871	51	9 528	1 254.6	1985	85 12 - GPP
64	3.40	0.180	0.38	0.77	58	880	42	9 360	1 273.7	1986	86 08 - GPP
64	2.00	0.210	0.25	0.88	45	860	39	8 298	1 238.0	1986	87 07 - ABAND 89 03
64	3.00	0.270	0.21	0.85	60	870	41		1 249.5	1986	87 12
64	4.30	0.180	0.28	0.85	61	834	42	7 376	1 242.3	1986	87 12
64	9.50	0.070	0.40	0.85	65	869	43	9 641	1 251.8	1984	84 10 - GPP
64	9.00	0.058	0.45	0.85	60	859	39	9 008	1 296.0	1986	86 10
64	15.00	0.037	0.34	0.75	88	860	40	9 561	1 245.7	1986	87 03 - SUSP 88 10
64	23.60	0.070	0.36	0.75	88	860	40	8 618	1 255.3	1986	88 01
64	4.80	0.040	0.24	0.85	61	860	42	9 435	1 237.7	1986	87 04 - SUSP 87 02
64	11.00	0.040	0.25	0.85	61	860	37	9 033	1 262.5	1986	87 04
192	13.70	0.054	0.26	0.85	60	869	36	9 489	1 268.0	1986	88 03
64	23.98	0.053	0.30	0.85	45	898	41	11 011	1 296.3	1985	89 10
64	8.10	0.040	0.36	0.85	64	880	40	9 665	1 275.1	1986	86 08 - ABAND 89 02
64	4.00	0.030	0.45	0.75	88	878	40	10 952	1 289.5	1985	89 12 - ABAND 89 02
64	2.60	0.080	0.30	0.85	60	870	41	9 617	1 256.3	1986	87 11
64	14.50	0.060	0.24	0.85	60	870	41	9 592	1 236.2	1986	87 11 - ABAND 87 12
64	5.70	0.050	0.40	0.78	58	880	40	8 799	1 288.8	1986	89 12
64	3.00	0.110	0.35	0.70	68	825	62	22 888	2 461.5	1980	82 02 - GPP

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
CROSSFIELD 026-01W5								
CARDIUM A TOTAL	25 700.0			1 540.0	1 490.0	3 030.0	2 957.0	73.0
PRIMARY AREA	795.0	0.06		47.7		47.7		
WATER FLOOD AREA	24 900.0	0.06	0.06	1 490.0	1 490.0	2 990.0		
CARDIUM B	391.0	0.10		39.1		39.1	21.7	17.4
CARDIUM C	53.7	0.10		5.4		5.4	1.9	3.5
JUMPING POUND A	119.0	0.14		16.7		16.7	12.3	4.4
SECOND WHITE	278.0	0.15		41.7		41.7	33.0	8.7
SPECKS A								
SECOND WHITE	253.0	0.15		38.0		38.0	27.1	10.9
SPECKS B								
VIKING A	311.0	0.15		46.7		46.7	23.1	23.6
VIKING B	388.0	0.15		58.2		58.2	41.2	17.0
VIKING C	38.8	0.15		5.8		5.8	3.7	2.1
VIKING E	140.0	0.10		14.0		14.0	1.5	12.5
RUNDLE C	1 000.0	0.20		200.0		200.0	100.9	99.1
RUNDLE E	2 260.0	0.05		113.0		113.0	96.0	17.0
RUNDLE G	1 230.0	0.25		308.0		308.0	206.2	101.8
RUNDLE J	455.0	0.15		68.3		68.3	4.1	64.2
CROSSFIELD EAST 029-01W5								
CARDIUM B	144.0	0.07		10.1		10.1	4.9	5.2
CARDIUM C	2 430.0	0.14		340.0		340.0	283.0	57.0
CARDIUM D	1 148.0	0.06		68.9		68.9	41.5	27.4
CARDIUM F	57.9	0.15		8.7		8.7	3.5	5.2
ELLERSLIE A	212.0	0.05		10.6		10.6	7.2	3.4
ELKTON A	1 060.0	0.17		180.0		180.0	170.0	10.0
ELKTON B	188.0	<0.01		0.1		0.1		0.1
ELKTON D	2 700.0	0.14		378.0		378.0	347.8	30.2
ELKTON F	634.0	0.15		95.1		95.1	60.5	34.6
CRYSTAL 046-03W5								
BELLY RIVER A	389.0	0.10		38.9		38.9	2.7	36.2
VIKING A TOTAL	16 380.0			2 005.0	3 528.0	5 533.0	1 972.6	3 560.4
PRIMARY AREA	2 290.0	0.06		137.0		137.0		
WATER FLOOD AREA	14 090.0	<0.14	0.25	1 868.0	3 528.0	5 396.0		
VIKING H	1 640.0	0.15		246.0		246.0	92.2	153.8
VIKING I	242.0	<0.01		0.2		0.2	0.2	
CULP 079-23W5								
WABAMUN A	561.0	0.20		112.0		112.0	14.4	97.6
WABAMUN B	438.0	0.20		87.6		87.6	19.2	68.4
WABAMUN C	566.0	0.20		113.0		113.0		113.0
GRANITE WASH A	86.6	0.25		21.7		21.7	4.8	16.9
CYGNET 038-01W5								
VIKING A	385.0	0.15		57.8		57.8	28.5	29.3
VIKING C	176.0	0.15		26.4		26.4	12.7	13.7
VIKING F	140.0	<0.01		0.1		0.1	0.1	
VIKING G	613.0	0.15		92.0		92.0	34.9	57.1
VIKING H	142.0	0.15		21.3		21.3	13.6	7.7
VIKING J	139.0	<0.02		1.6		1.6		
VIKING K	51.7	0.20		10.3		10.3	7.3	3.0
VIKING M	24.6	<0.02		0.4		0.4		
VIKING N	184.0	0.15		27.6		27.6	7.4	20.2
VIKING O	120.0	0.20		24.0		24.0	11.4	12.6
VIKING P	49.1	0.15		7.4		7.4	1.5	5.9
VIKING Q	64.2	0.15		9.6		9.6	2.6	7.0
VIKING R	106.0	0.15		15.9		15.9	1.5	14.4
GLAUCONITIC A	36.3	<0.01		0.2		0.2		
GLAUCONITIC B	207.0	0.15		31.1		31.1	6.4	24.7
GLAUCONITIC C	154.0	<0.02		2.1		2.1	2.1	
GLAUCONITIC E	107.0	0.15		16.1		16.1	3.3	12.8
ELLERSLIE A	86.4	0.20		17.3		17.3	5.0	12.3
ELLERSLIE B	30.4	<0.01		0.1		0.1	0.1	
ELLERSLIE C	76.4	0.15		11.5		11.5	2.8	8.7
ELLERSLIE D	117.0	0.10		11.7		11.7	0.5	11.2
ELLERSLIE E	60.5	0.10		6.1		6.1	0.2	5.9
ELLERSLIE J	62.3	0.10		6.2		6.2	1.7	4.5
ELLERSLIE K	134.0	0.10		13.4		13.4	2.6	10.8
ELLERSLIE M	58.2	0.10		5.8		5.8	1.0	4.8
PEKISKO A	563.0	0.05		28.2		28.2	5.2	23.0

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
12 910					82	834	66	25 300	2 033.9	1956	81 12 - GPP
259	4.30	0.098	0.10	0.81							
12 651	2.50	0.108	0.10	0.81							
192	2.71	0.110	0.10	0.76	53	834	54	8 270	1 719.4	1961	84 12 - GPP
64	1.30	0.100	0.15	0.76	105	851	54	8 230	1 634.7	1982	84 03
110	1.22	0.160	0.30	0.79	82	834	66	28 270	2 082.7	1961	82 12 - GPP
285	6.64	0.030	0.30	0.70	89	815	49	28 270	2 235.4	1974	87 12 - GPP
64	3.00	0.220	0.20	0.75	85	827	70	27 598	2 171.5	1980	87 12
262	1.90	0.110	0.29	0.80	44	839	64	22 385	2 176.0	1964	86 09 - GPP
701	1.11	0.120	0.48	0.80	84	838	80	14 428	2 238.7	1982	89 12
64	1.60	0.080	0.40	0.79	84	838	80	16 046	2 290.2	1982	87 12
64	5.97	0.077	0.44	0.85	48	811	72	15 905	2 270.0	1983	85 03
128	12.98	0.110	0.28	0.76	133	865	81	22 510	2 607.1	1963	86 10
669	4.63	0.120	0.20	0.76	121	860	71	19 510	2 114.1	1967	71 02
202	12.19	0.102	0.30	0.70	131	860	81	22 340	2 601.8	1974	76 06
64	15.27	0.084	0.27	0.76	103	871	81		2 614.5	1988	89 02
128	1.60	0.110	0.15	0.75	46	815	60	20 590	1 720.6	1966	83 10
3 091	1.14	0.100	0.14	0.80	69	849	59	20 943	1 765.9	1954	89 12
473	3.31	0.115	0.15	0.75	53	815	63	20 586	1 657.8	1968	88 07 - GPP
64	1.00	0.130	0.13	0.80	85	850	50	14 150	1 637.5	1984	85 06
64	5.30	0.100	0.30	0.89	35	874	66	15 250	2 103.8	1977	79 01 - GPP
486	6.74	0.060	0.17	0.68	195	855	70	20 890	2 291.5	1968	81 12 - GPP
65	11.86	0.047	0.20	0.65	191	855	71	20 690	2 241.2	1965	68 05 - ABAND 67 09
462	11.00	0.092	0.15	0.68	191	855	79	21 100	2 325.1	1965	87 12 - GPP
128	11.40	0.090	0.29	0.68	154	853	79	20 813	2 328.8	1975	87 12
64	7.30	0.170	0.45	0.89	39	845	44	7 246	1 131.1	1986	87 01
5 090					82	825	76	10 316	1 752.0	1978	88 12
2 295	3.91	0.090	0.65	0.81							
2 795	9.56	0.105	0.38	0.81							
804	3.33	0.120	0.37	0.81	74	807	60	10 725	1 737.4	1983	84 12
64	11.52	0.090	0.55	0.81	74	835	60	9 396	1 743.9	1985	88 12 - SUSP 86 12
64	40.60	0.045	0.40	0.80	76	858	61	19 541	1 853.7	1985	86 06
32	20.90	0.120	0.30	0.78	111	841	60	20 784	1 902.8	1985	89 12
32	57.00	0.044	0.15	0.83	62	848	61		1 839.7	1988	89 12
64	1.70	0.150	0.39	0.87	35	835	74	26 282	2 399.0	1986	85 07
607	1.94	0.065	0.37	0.80	130	813	65	13 110	1 641.8	1981	86 06
259	1.89	0.090	0.43	0.70	130	820	57	13 210	1 715.1	1980	85 04 - GPP
64	3.50	0.120	0.35	0.80	78	821	50	12 929	1 688.3	1983	83 12 - SUSP 85 04
1 088	1.60	0.080	0.45	0.80	100	820	65	12 850	1 634.1	1980	86 09
256	1.60	0.080	0.46	0.80	100	818	65	12 716	1 634.2	1980	86 01
64	4.40	0.100	0.35	0.76	130	798	44	7 753	1 723.0	1983	84 04 - ABAND 86 10
192	0.68	0.070	0.31	0.80	83	822	63	11 730	1 687.4	1984	85 11
64	1.00	0.080	0.40	0.80	99	803	44	12 850	1 670.2	1980	88 12 - SUSP 86 11
256	2.14	0.060	0.30	0.80	74	821	63	11 441	1 632.6	1985	86 12 - SUSP 88 08
154	2.00	0.077	0.27	0.80	99	802	44	12 334	1 722.7	1986	89 10
64	1.40	0.090	0.22	0.78	99	817	68		1 667.7	1988	89 03
64	3.00	0.080	0.45	0.76	131	746	44		1 605.2	1985	89 12
128	1.57	0.103	0.36	0.80	80	828	48	9 756	1 677.2	1985	87 10
32	1.50	0.140	0.35	0.83	68	923	62	12 760	1 832.0	1980	80 11 - ABAND 85 01
64	3.70	0.140	0.22	0.80	90	868	65	15 965	1 834.3	1985	85 12
64	2.80	0.130	0.15	0.78	91	877	58	16 172	1 786.9	1985	89 12 - SUSP 87 06
64	1.90	0.140	0.17	0.76	90	850	66	14 243	1 830.3	1988	89 01
120	1.00	0.120	0.25	0.80	70	818	61	15 319	1 947.0	1985	87 12
64	1.10	0.090	0.40	0.80	80	865	58	14 777	1 813.2	1985	89 12 - SUSP 86 07
64	1.20	0.150	0.15	0.78	91	861	69	15 175	1 976.2	1985	86 08
64	2.80	0.110	0.24	0.78	91	907	69	14 668	1 866.9	1986	87 04
64	1.50	0.105	0.25	0.80	71	845	70	13 005	1 891.8	1985	87 10
64	1.30	0.120	0.22	0.80	76	861	74	15 205	1 916.8	1981	82 02
64	3.10	0.120	0.28	0.78	91	879	69	16 571	1 862.2	1988	88 12
64	2.00	0.080	0.28	0.79	91	891	69		1 883.8	1988	89 03
128	9.77	0.084	0.33	0.80	95	913	54	16 497	1 837.1	1986	89 08

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
CYN-PEM 051-11W5								
BELLY RIVER A	269.0	0.03		8.1		8.1	4.2	3.9
BELLY RIVER B	184.0	<0.01		1.8		1.8	1.8	
BELLY RIVER C	917.0	0.10		91.7		91.7	11.8	79.9
CARDIUM A TOTAL	6 480.0			776.0	1 470.0	2 246.0	2 086.1	159.9
PRIMARY AREA	70.0	<0.09		6.0		6.0		
WATER FLOOD AREA	6 410.0	<0.13	0.23	770.0	1 470.0	2 240.0		
CARDIUM B	736.0	0.12		88.3		88.3	42.2	46.1
CARDIUM C TOTAL	1 450.0			169.0	115.0	284.0	169.6	114.4
PRIMARY AREA	90.0	<0.05		4.0		4.0		
WATER FLOOD AREA	1 360.0	<0.12	0.09	165.0	115.0	280.0		
CARDIUM D TOTAL	6 280.0			752.0	1 426.0	2 178.0	877.7	1 300.3
PRIMARY AREA	79.6	0.10		8.0		8.0		
WATER FLOOD AREA	6 204.0	0.12	0.23	744.0	1 426.0	2 170.0		
CARDIUM F	54.1	<0.01		0.2		0.2	0.2	
CARDIUM J	239.0	<0.01		2.1		2.1	2.1	
CARDIUM L	1 000.0	0.12	0.23	120.0	230.0	350.0	183.7	166.3
WATER FLOOD								
CARDIUM M	170.0	0.13		22.1		22.1	18.0	4.1
CARDIUM N	185.0	0.10		18.5		18.5	3.7	14.8
CARDIUM O	1 520.0	0.10		152.0		152.0	73.9	78.1
CARDIUM P	700.0	<0.09		59.5		59.5	29.9	29.6
CARDIUM Q	54.2	<0.03		1.6		1.6	1.6	
CARDIUM R	49.2	0.12		5.9		5.9	1.4	4.5
CARDIUM T	339.0	0.02		6.8		6.8	3.0	3.8
CARDIUM U	72.6	0.15		10.9		10.9	6.4	4.5
VIKING A	310.0	0.15		46.5		46.5	7.1	39.4
OSTRACOD A	234.0	0.15		35.1		35.1	24.7	10.4
ROCK CREEK I	63.4	<0.01		0.3		0.3	0.3	
ROCK CREEK J	21.1	0.10		2.1		2.1		2.1
ROCK CREEK K	216.0	<0.01		0.1		0.1	0.1	
ROCK CREEK C & G	313.0	0.03		9.4		9.4	4.0	5.4
NISKU A WATER FLOOD	475.0	0.20	0.25	95.0	119.0	214.0	110.7	103.3
DAVEY 034-27W4								
BELLY RIVER B	2 500.0	0.05		125.0		125.0	70.8	54.2
BELLY RIVER F	857.0	0.05		42.9		42.9	18.0	24.9
BELLY RIVER G	316.0	0.03		9.5		9.5	4.0	5.5
PEKISKO A	3 110.0	0.06		187.0		187.0	148.3	38.7
PEKISKO C	183.0	0.05		9.2		9.2	3.5	5.7
D-2 A	112.0	<0.01		0.3		0.3	0.3	
D-2 B	278.0	<0.01		2.1		2.1	2.1	
DAWSON 080-17W5								
BEAVERHILL LAKE A	477.0	0.20		95.4		95.4	79.9	15.5
BEAVERHILL LAKE B	368.0	0.20		73.6		73.6	23.8	49.8
SLAVE POINT A	72.9	<0.04		2.5		2.5	2.5	
SLAVE POINT B	128.0	0.25		32.0		32.0	8.8	23.2
SLAVE POINT C	84.1	<0.07		5.5		5.5	5.5	
SLAVE POINT D	294.0	<0.01		0.6		0.6	0.6	
SLAVE POINT E	17.6	<0.07		1.2		1.2	1.2	
SLAVE POINT F	40.0	<0.17		6.7		6.7	6.7	
SLAVE POINT G	40.0	0.20		8.0		8.0	1.0	7.0
SLAVE POINT H	661.0	0.20		132.0		132.0	21.4	110.6
SLAVE POINT I	189.0	0.15		28.4		28.4	6.9	21.5
SLAVE POINT J	530.0	0.30		159.0		159.0	21.8	137.2
SLAVE POINT K	673.0	0.20		135.0		135.0	10.1	124.9
SLAVE POINT L	51.5	0.10		5.2		5.2	0.2	5.0
SLAVE POINT N	206.0	0.15		30.9		30.9	2.0	28.9
SLAVE POINT O	93.7	0.30		28.1		28.1	2.5	25.6
GRANITE WASH A	115.0	<0.02		1.5		1.5	1.5	
GRANITE WASH B	337.0	0.10		33.7		33.7	8.6	25.1
GRANITE WASH C	130.0	<0.02		2.1		2.1	2.1	
DEL BONITA 001-21W4								
RUNDLE	397.0	0.29		115.0		115.0	110.6	4.4
DELIA 033-19W4								
ELLERSLIE A	73.4	<0.03		1.6		1.6	1.6	
BANFF B	210.0	0.10		21.0		21.0		21.0
DIMSDALE 071-07W6								
CHARLIE LAKE A	100.0	0.20		20.0		20.0	6.5	13.5

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	5.30	0.167	0.40	0.79	87	810	48	8 191	1 206.0	1982	86 12
64	3.20	0.180	0.44	0.89	66	822	37	7 956	1 183.3	1982	83 06 - SUSP 84 12
192	5.59	0.150	0.36	0.89	39	839	41	9 681	1 376.5	1987	89 05
1 447					52	844	56	19 130	1 643.6	1962	86 11
128	0.73	0.097	0.11	0.87							
1 319	6.47	0.097	0.11	0.87							- GPP
192	4.66	0.105	0.10	0.87	52	844	57	19 200	1 672.5	1962	85 08 - GPP
295					52	844	57	19 170	1 652.8	1963	87 03
39	2.72	0.107	0.10	0.88							
256	6.27	0.107	0.10	0.88							
1 498					41	868	54	12 879	1 559.2	1980	89 08
128	1.63	0.051	0.16	0.89							
1 370	6.36	0.100	0.20	0.89							
64	1.20	0.100	0.20	0.88	52	878	56	10 794	1 544.4	1982	82 12 - ABAND 87 11
64	7.00	0.100	0.40	0.89	41	871	54	7 528	1 512.8	1982	89 12 - SUSP 87 06
171	6.51	0.120	0.15	0.88	61	856	56	19 037	1 642.7	1983	85 07
50	7.70	0.064	0.20	0.86	53	845	36	10 234	1 792.1	1983	89 12
64	2.88	0.134	0.15	0.88	44	844	58	18 959	1 750.7	1984	85 03
256	8.84	0.100	0.21	0.85	45	844	52	10 011	1 567.0	1982	85 09
545	1.76	0.105	0.22	0.89	42	825	66	19 359	1 803.3	1982	89 06
64	1.72	0.070	0.20	0.88	44	860	58	10 234	1 770.8	1985	86 06 - ABAND 89 06
64	1.30	0.080	0.15	0.87	44	860	58	11 211	1 605.2	1985	86 10
64	6.00	0.130	0.20	0.85	54	834	64	10 237	1 797.8	1980	87 12 - GPP
64	1.50	0.100	0.15	0.89	41	867	54	8 246	1 569.1	1987	89 12
128	3.95	0.140	0.46	0.81	79	845	61	13 393	1 916.2	1986	86 10
128	2.64	0.116	0.17	0.72	384	787	91	28 955	2 381.1	1982	89 03
64	2.40	0.082	0.32	0.74	120	828	80	19 744	2 207.5	1983	89 12 - SUSP 86 04
64	0.80	0.082	0.32	0.74	120	828	80	19 662	2 197.9	1983	84 04
64	6.38	0.089	0.30	0.85	120	853	80	16 550	2 174.2	1985	86 06 - SUSP 86 03
64	10.25	0.104	0.38	0.74	120	829	78	15 899	2 177.4	1981	85 12 - GPP
64	13.90	0.090	0.10	0.65	151	806	90	26 600	2 658.7	1978	80 12
384	6.30	0.185	0.40	0.93	17	840	44	4 130	1 211.7	1978	83 05
192	5.43	0.170	0.48	0.93	17	841	44	4 130	1 187.5	1978	87 07
64	4.94	0.185	0.40	0.90	26	854	43	3 961	1 206.5	1980	85 12
768	11.20	0.066	0.27	0.75	98	855	66	12 580	1 988.4	1958	81 12
64	13.60	0.040	0.30	0.75	85	854	59	11 665	1 990.7	1981	84 12 - SUSP 88 12
65	9.75	0.034	0.20	0.65	177	825	66	21 710	2 355.5	1974	78 07 - ABAND 77 12
65	16.46	0.049	0.18	0.65	220	825	66	21 580	2 354.9	1974	80 12 - ABAND 79 11
127	6.38	0.090	0.15	0.77	91	825	69	20 059	2 073.0	1953	86 02
64	5.49	0.160	0.15	0.77	99	834	64	19 622	1 287.5	1973	87 11 - SUSP 89 03
64	2.80	0.066	0.23	0.80	72	839	67	19 515	2 123.5	1984	86 02 - SUSP 86 03
67	3.80	0.080	0.28	0.87	42	840	59	20 253	1 994.1	1982	86 02 - SUSP 89 03
64	2.30	0.105	0.32	0.80	70	840	71	20 406	2 122.7	1982	86 02 - SUSP 86 03
64	7.68	0.095	0.30	0.90	29	840	55	21 153	2 120.5	1983	88 12 - SUSP 86 05
64	0.88	0.060	0.40	0.87	42	837	53	18 438	2 073.3	1983	88 12 - SUSP 86 06
96	2.00	0.060	0.60	0.87	92	838	69	20 096	2 074.0	1980	88 12 - SUSP 86 06
64	1.71	0.060	0.30	0.87	45	842	48	19 645	2 037.4	1987	88 12 - SUSP 89 03
192	6.53	0.079	0.25	0.89	27	835	50	19 247	1 933.2	1986	88 01
64	8.40	0.057	0.29	0.87	44	841	49	19 913	2 028.4	1986	86 11
192	6.69	0.069	0.32	0.88	42	825	53	19 631	1 972.7	1985	88 12
64	12.30	0.108	0.10	0.88	39	825	54	19 473	1 992.3	1988	88 11
64	3.40	0.050	0.45	0.86	43	831	67	19 166	2 002.3	1988	88 11
64	5.44	0.083	0.18	0.87	55	853	65		2 075.6	1989	89 08
64	4.01	0.061	0.32	0.88	39	835	54	7 910	1 879.9	1985	87 03
64	3.00	0.120	0.45	0.91	28	831	50	16 338	2 094.0	1983	86 02 - SUSP 84 02
64	4.50	0.200	0.35	0.90	29	834	60	20 792	2 098.5	1983	87 12
64	3.10	0.100	0.25	0.87	38	840	72	21 264	2 097.4	1981	88 12 - SUSP 86 06
228	7.92	0.050	0.45	0.80	62	839	44	8 270	1 568.8	1936	87 12 - GPP
64	1.50	0.180	0.50	0.85	25	866	39	9 304	1 327.8	1982	89 12 - SUSP 86 12
64	15.70	0.030	0.18	0.85	61	849	61	10 300	1 434.2	1987	87 07
94	1.00	0.150	0.11	0.80	86	868	74	21 570	2 049.3	1986	88 12

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
DIMSDALE 071-07W6 (CONTINUED)								
HALFWAY A	183.0	0.05		9.2		9.2	3.4	5.8
HALFWAY B	82.1	0.10		8.2		8.2	6.2	2.0
DOE 081-12W6								
DOIG A	500.0	0.15		75.0		75.0	9.1	65.9
DONALDA 043-19W4								
VIKING I	282.0	0.05		14.1		14.1	0.2	13.9
UPPER MANNVILLE F	172.0	0.15		25.8		25.8	16.3	9.5
DOWLING LAKE 032-15W4								
UPPER MANNVILLE A	465.0	0.10		46.5		46.5	1.7	44.8
LOWER MANNVILLE B	72.1	<0.01		0.1		0.1		0.1
BANFF A	55.5	0.10		5.6		5.6	0.1	5.5
DRIFTPILE 073-11W5								
SLAVE POINT A	162.0	0.15		24.3		24.3	2.9	21.4
GILWOOD A	99.6	0.15		14.9		14.9	10.7	4.2
DRUMHELLER 029-19W4								
MANNVILLE A	291.0	0.05		14.6		14.6	10.0	4.6
MANNVILLE F	450.0	0.02		9.0		9.0	4.8	4.2
MANNVILLE I	2 300.0	0.05		115.0		115.0	24.5	90.5
MANNVILLE K	228.0	<0.01		0.2		0.2	0.2	
MANNVILLE L	265.0	<0.01		0.1		0.1	0.1	
MANNVILLE T	157.0	<0.06		7.8		7.8	2.7	5.1
MANNVILLE Y	265.0	<0.01		0.1		0.1		0.1
MANNVILLE Z	177.0	0.10		17.7		17.7	5.5	12.2
MANNVILLE AA	571.0	<0.01		0.2		0.2	0.2	
MANNVILLE BB	267.0	<0.01		0.2		0.2	0.2	
MANNVILLE DD	1 250.0	0.03		37.5		37.5	17.2	20.3
MANNVILLE FF	305.0	<0.01		1.2		1.2	1.2	
MANNVILLE JJ	233.0	0.05		11.7		11.7	1.9	9.8
UPPER MANNVILLE A	524.0	0.20		105.0		105.0	70.1	34.9
UPPER MANNVILLE C	253.0	0.10		25.3		25.3	8.5	16.8
UPPER MANNVILLE D	36.9	0.10		3.7		3.7	0.7	3.0
UPPER MANNVILLE I	14.8	0.10		1.5		1.5	0.1	1.4
UPPER MANNVILLE K	110.0	0.10		11.0		11.0	0.5	10.5
LOWER MANNVILLE G	367.0	0.10		36.7		36.7	0.3	36.4
LOWER MANNVILLE H	380.0	0.05		19.0		19.0	3.8	15.2
LOWER MANNVILLE I	182.0	0.10		18.2		18.2	2.6	15.6
LOWER MANNVILLE J	155.0	<0.01		0.1		0.1		0.1
LOWER MANNVILLE M	473.0	0.10		47.3		47.3	4.4	42.9
LOWER MANNVILLE O	155.0	0.10		15.5		15.5	2.0	13.5
LOWER MANNVILLE P	473.0	0.05		23.7		23.7	0.9	22.8
BANFF B	71.4	<0.01		0.1		0.1	0.1	
BANFF C	130.0	0.10		13.0		13.0		13.0
D-2 A	2 809.0	0.65		1 826.0		1 826.0	1 585.5	240.5
D-2 B	5 750.0	0.50		2 880.0		2 880.0	2 138.2	741.8
D-2 C	172.0	0.15		25.8		25.8	9.6	16.2
DUHAMEL 045-21W4								
WABAMUN A	48.0	<0.08		3.5		3.5	3.5	
D-2 A	2 000.0	0.53		1 060.0		1 060.0	1 010.0	50.0
D-3 A	191.0	<0.10		18.3		18.3	18.3	
D-3 B WATER FLOOD	2 240.0	0.50	0.15	1 120.0	336.0	1 460.0	1 364.5	95.5
EAGLESHAM 077-25W5								
DEBOLT D	149.0	<0.08		11.3		11.3	11.3	
D-1 A	217.0	0.30		65.1		65.1	52.1	13.0
D-1 B	504.0	0.10		50.4		50.4	26.7	23.7
D-1 C	156.0	0.10		15.6		15.6	9.7	5.9
D-1 D	636.0	<0.01		2.1		2.1	2.1	
D-1 E	178.0	0.20		35.6		35.6	0.6	35.0
D-3 A	734.0	0.40		294.0		294.0	278.6	15.4
EAGLESHAM NORTH 078-25W5								
D-1 A	254.0	0.30		76.2		76.2	15.8	60.4
D-1 C	976.0	0.25		244.0		244.0	28.4	215.6

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	6.80	0.084	0.35	0.77	108	820	78	21 897	2 148.8	1980	83 12
64	4.50	0.073	0.45	0.71	120	821	65	21 470	2 180.6	1980	82 05
589	1.45	0.110	0.30	0.76	92	832	72	14 863	1 576.2	1986	88 06
64	4.30	0.190	0.40	0.90	30	856	43		1 014.4	1971	89 09 - SUSP 89 08
128	1.02	0.210	0.32	0.92	30	856	32	8 011	1 180.6	1986	88 12
64	6.50	0.180	0.27	0.85	59	852	37	8 659	1 175.8	1986	87 11 - GPP
64	2.10	0.100	0.39	0.88	53	892	35	8 736	1 239.9	1987	88 01 - ABAND 87 11
64	4.70	0.035	0.38	0.85	50	880	37	7 938	1 249.4	1987	87 10 - SUSP 89 04
64	7.30	0.070	0.45	0.90	31	843	49	4 100	1 924.5	1985	85 08
64	2.30	0.150	0.45	0.82	66	854	49	8 400	1 948.2	1985	85 08
85	4.07	0.150	0.30	0.80	59	865	49	9 430	1 355.6	1950	83 06 - GPP
71	3.96	0.252	0.28	0.88	44	855	47	10 340	1 303.5	1969	85 07 - GPP
512	8.36	0.140	0.52	0.80	44	855	54	9 340	1 299.5	1966	86 10 - GPP
64	4.60	0.140	0.35	0.85	62	849	54	10 080	1 305.2	1968	79 11 - ABAND 82 05
65	4.27	0.200	0.40	0.80	71	855	56	9 430	1 310.9	1969	70 08 - SUSP 70 02
65	1.83	0.200	0.23	0.85	50	887	46	10 260	1 364.6	1975	77 04
64	7.00	0.100	0.35	0.91	28	887	54	6 300	1 250.3	1978	79 02 - ABAND 79 01
128	1.30	0.220	0.43	0.85	60	858	46	10 282	1 272.1	1978	84 06 - GPP
64	15.90	0.120	0.45	0.85	54	885	46	7 120	1 321.4	1979	83 12 - SUSP 83 01
64	6.30	0.130	0.40	0.85	62	871	47	9 804	1 324.3	1980	83 12 - SUSP 81 06
128	15.90	0.140	0.46	0.81	78	825	47	9 468	1 162.9	1980	84 04 - GPP
64	4.50	0.210	0.37	0.80	78	877	41	9 262	1 324.3	1980	82 07 - SUSP 83 09
64	10.80	0.090	0.56	0.85	59	860	47		1 287.7	1988	89 12 - GPP
128	3.71	0.206	0.33	0.80	62	855	46	9 358	1 269.7	1961	89 12
64	4.70	0.210	0.50	0.80	79	869	50	10 500	1 318.2	1982	82 09
64	1.00	0.160	0.55	0.80	87	869	40	9 200	1 288.2	1979	83 05
64	2.30	0.070	0.82	0.80	60	885	46	9 826	1 355.2	1985	88 03
64	2.40	0.180	0.53	0.85	80	850	40		1 323.8	1987	88 04 - SUSP 88 08
64	8.00	0.110	0.26	0.88	43	887	43	9 760	1 306.0	1984	86 03
126	4.76	0.150	0.52	0.88	43	879	43	9 435	1 257.7	1985	89 10 - GPP
64	5.30	0.140	0.55	0.85	58	855	44	9 319	1 256.0	1984	85 04 - GPP
64	6.41	0.110	0.57	0.80	80	879	44	8 372	1 313.0	1982	89 12 - SUSP 87 08
64	10.00	0.140	0.40	0.88	52	850	43	8 431	1 255.0	1980	82 03
64	3.10	0.160	0.39	0.80	86	887	45		1 256.5	1988	89 02
64	12.90	0.140	0.53	0.87	42	888	70		1 255.4	1988	89 08
64	2.80	0.070	0.33	0.85	50	876	50	8 903	1 321.4	1979	83 12 - ABAND 80 08
64	2.20	0.150	0.30	0.88	50	877	43		1 270.1	1988	89 10
677	7.63	0.078	0.17	0.84	66	860	55	13 170	1 655.1	1951	88 12
1 226	9.29	0.076	0.18	0.81	70	855	54	13 200	1 613.7	1961	84 12 - GPP
64	5.00	0.080	0.20	0.84	66	858	55	12 934	1 625.5	1981	83 12 - GPP
65	1.22	0.100	0.30	0.87	44	844	71	8 960	1 374.6	1956	67 02 - SUSP 69 02
507	10.36	0.058	0.20	0.82	68	844	54	10 340	1 375.3	1951	89 12 - GPP
272	4.48	0.028	0.30	0.80	79	844	57	12 890	1 472.2	1956	64 04 - ABAND 69 12
212	20.52	0.073	0.14	0.82	79	844	56	12 930	1 461.2	1950	85 07
64	8.31	0.050	0.20	0.70	149	829	51	10 450	1 497.8	1968	83 12 - SUSP 81 02
64	23.00	0.040	0.45	0.67	167	826	64	21 977	2 047.3	1980	85 05
64	19.60	0.080	0.25	0.67	163	835	64	21 777	2 053.1	1981	83 10
16	42.30	0.040	0.14	0.67	163	840	64	21 808	2 065.1	1985	89 12
64	84.00	0.019	0.17	0.75	163	849	64	22 283	2 092.0	1985	88 03 - ABAND 88 05
64	19.80	0.030	0.30	0.67	163	832	64	22 162	2 089.5	1988	88 12
191	10.33	0.062	0.13	0.69	154	820	74	25 060	2 307.0	1959	78 12 - GPP
64	14.10	0.053	0.32	0.78	111	841	60	20 502	1 953.1	1987	88 07
64	54.00	0.042	0.19	0.83	62	833	61		1 899.6	1988	89 03

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
EARRING 083-08W6								
CHARLIE LAKE A	272.0	0.15		40.8		40.8	0.2	40.6
CHARLIE LAKE B	364.0	<0.01		0.1		0.1		0.1
EDSON 052-17W5								
CARDIUM A	84.7	<0.11		9.2		9.2	9.2	
CARDIUM B TOTAL	3 530.0			358.0	166.0	524.0	429.7	94.3
PRIMARY AREA	221.0	0.12		26.5		26.5		
WATER FLOOD AREA	3 310.0	0.10	0.05	331.0	166.0	497.0		
CARDIUM C	2 640.0	0.05		132.0		132.0	93.1	38.9
CARDIUM E	236.0	0.08		18.9		18.9	5.4	13.5
CARDIUM J	500.0	0.10		50.0		50.0	37.2	12.8
CARDIUM T	150.0	0.10		15.0		15.0	7.3	7.7
CARDIUM U	80.9	0.12		9.7		9.7	8.3	1.4
CARDIUM W	32.4	0.10		3.2		3.2		3.2
CARDIUM EE	55.9	0.10		5.6		5.6	3.7	1.9
CARDIUM II	99.1	0.10		9.9		9.9	4.1	5.8
CARDIUM JJ	250.0	0.10		25.0		25.0	13.0	12.0
CARDIUM KK	105.0	0.17		17.9		17.9	12.9	5.0
CARDIUM OO	38.4	0.15		5.8		5.8	3.2	2.6
CARDIUM SS	109.0	0.10		10.9		10.9	1.2	9.7
CARDIUM TT	45.1	0.20		9.0		9.0	2.7	6.3
CARDIUM UU	26.6	0.12		3.2		3.2	2.6	0.6
CARDIUM VV	66.8	0.12		8.0		8.0	5.3	2.7
CARDIUM XX	62.1	0.10		6.2		6.2	1.0	5.2
CARDIUM CC & WW	237.0	0.10		23.7		23.7	13.1	10.6
CARDIUM RR & ZZ	1 440.0	0.12		173.0		173.0	96.7	76.3
CARDIUM I, K, P & AAA	4 670.0	0.05		231.3		231.3	198.4	32.9
CARDIUM CCC	168.0	<0.01		0.2		0.2	0.2	
CARDIUM DDD	49.0	0.10		4.9		4.9	1.2	3.7
CARDIUM EEE	148.0	0.05		7.4		7.4	0.3	7.1
SECOND WHITE	349.0	0.10		34.9		34.9	15.4	19.5
SPECKS A								
SECOND WHITE	244.0	0.10		24.4		24.4	1.1	23.3
SPECKS B								
VIKING C	224.0	<0.02		2.9		2.9	2.9	
BLUESKY A	3 800.0	0.05		190.0		190.0	88.2	101.8
GETHING C	130.0	0.10		13.0		13.0	8.1	4.9
CADOMIN A	108.0	<0.01		0.5		0.5	0.5	
ELLERSLIE 051-24W4								
BLAIRMORE A	79.6	<0.11		8.1		8.1	8.1	
BLAIRMORE B	186.0	<0.32		59.2		59.2	59.2	
ELMWORTH 070-11W6								
DOE CREEK A	160.0	0.10		16.0		16.0	0.9	15.1
DOE CREEK B	1 635.0	0.10		164.0		164.0	50.0	114.0
DOE CREEK C	55.5	0.10		5.6		5.6	0.9	4.7
DUNVEGAN B	208.0	0.10		20.8		20.8	0.4	20.4
CADOTTE H	253.0	<0.01		0.6		0.6	0.6	
CHARLIE LAKE A	2 780.0	0.15		417.0		417.0	191.0	226.0
CHARLIE LAKE B	114.0	<0.02		1.3		1.3	1.3	
ELNORA 035-23W4								
UPPER MANNVILLE E	200.0	0.10		20.0		20.0	8.3	11.7
UPPER MANNVILLE L	300.0	0.20		60.0		60.0	20.8	39.2
LOWER MANNVILLE B	71.3	0.10		7.1		7.1	1.0	6.1
LOWER MANNVILLE D	107.0	0.10		10.7		10.7		10.7
ENCHANT 012-16W4								
UPPER MANNVILLE K	856.0	<0.01		2.7		2.7	2.7	
LIVINGSTONE A	362.0	0.15		54.3		54.3	9.9	44.4
LIVINGSTONE B	227.0	0.10		22.7		22.7	1.8	20.9
LIVINGSTONE C	149.0	0.15		22.3		22.3	2.4	19.9
ARCS A	530.0	0.25		133.0		133.0	44.6	88.4
ARCS B	289.0	0.20		57.8		57.8	7.7	50.1
ARCS C	355.0	0.15		53.3		53.3	1.1	52.2
ARCS D	337.0	0.15		50.6		50.6	7.2	43.4
ARCS E	201.0	0.15		30.2		30.2	6.0	24.2
ARCS H	356.0	0.10		35.6		35.6	1.1	34.5
ARCS I	404.0	0.10		40.4		40.4	3.4	37.0
ARCS J	220.0	<0.01		0.1		0.1	0.1	
ARCS K	444.0	0.20		88.8		88.8	13.3	75.5

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	6.50	0.110	0.30	0.85	60	917	48	10 444	1 145.8	1987	88 04
64	8.60	0.140	0.41	0.80	84	880	43	10 628	1 163.0	1988	88 07 - SUSP 88 04
2 522	1.52	0.130	0.13	0.76	104	825	61	21 720	1 785.8	1963	89 12 - SUSP 86 07
253					104	825	61	22 410	1 843.7	1963	78 12 - GPP
2 269	1.37	0.101	0.17	0.76							
2 495	2.29	0.101	0.17	0.76							
2 495	2.40	0.090	0.21	0.62	230	815	64	23 250	1 984.1	1972	83 07 - GPP
192	1.79	0.110	0.18	0.76	103	825	60	19 974	1 922.0	1974	84 09
516	1.50	0.100	0.15	0.76	180	802	55	20 800	1 895.6	1978	81 12
97	2.00	0.150	0.15	0.61	200	800	53	20 900	1 909.7	1981	82 12
64	2.00	0.120	0.15	0.62	185	800	63	19 361	1 899.5	1981	86 12
64	0.98	0.080	0.15	0.76	105	802	62	20 800	1 896.3	1981	82 07
64	2.40	0.069	0.15	0.62	190	813	69	21 760	2 002.1	1982	82 11
64	2.70	0.090	0.15	0.75	104	825	63	19 382	1 905.9	1981	83 12
221	2.00	0.095	0.15	0.70	104	800	64	22 739	1 940.2	1980	83 12
64	1.90	0.150	0.07	0.62	195	800	65	16 297	1 900.2	1982	87 12 - GPP
64	1.40	0.080	0.15	0.63	189	819	64	19 229	1 868.0	1982	84 12
64	3.00	0.110	0.18	0.63	189	819	64	19 900	1 918.3	1983	83 10
64	0.85	0.150	0.15	0.65	186	824	65	21 464	1 917.3	1983	87 12
64	0.79	0.100	0.15	0.62	186	824	65	21 050	1 969.5	1981	89 12
88	1.20	0.120	0.15	0.62	189	815	64	17 670	1 916.4	1963	87 12
64	1.30	0.130	0.18	0.70	153	821	64	18 370	1 865.2	1984	85 01 - SUSP 88 03
512	0.88	0.100	0.26	0.71	122	809	63	21 587	1 965.6	1974	84 10
2 083	1.41	0.100	0.27	0.67	189	817	64	17 626	1 870.7	1977	86 07
3 512	3.06	0.100	0.30	0.62	220	813	83	23 264	1 957.2	1972	87 05 - GPP
64	3.00	0.160	0.24	0.72	142	829	67	22 968	1 749.3	1982	88 12 - SUSP 83 07
64	2.00	0.060	0.15	0.75	104	826	63	22 503	2 123.3	1983	83 08
64	3.00	0.122	0.28	0.88	204	825	64		1 934.9	1988	89 05
64	4.60	0.220	0.24	0.71	120	800	65	25 286	2 101.3	1981	83 02
64	12.10	0.050	0.10	0.70	130	825	72	23 822	2 242.0	1987	88 07
64	4.00	0.160	0.30	0.78	80	820	88	29 610	2 690.9	1976	81 12 - SUSP 81 01
448	13.94	0.100	0.24	0.80	120	802	76	22 130	2 567.0	1979	86 12
64	5.30	0.100	0.25	0.51	308	804	82	22 870	2 539.3	1962	79 03
64	2.00	0.150	0.20	0.70	140	800	97	22 070	1 995.6	1981	82 04 - SUSP 84 02
83	0.91	0.200	0.30	0.75	46	876	47	8 820	1 188.4	1950	71 05 - ABAND 70 07
135	1.43	0.173	0.36	0.87	46	876	47	8 860	1 184.8	1951	74 04 - ABAND 74 03
64	2.30	0.190	0.35	0.88	50	840	39	9 711	1 167.7	1982	85 12
809	1.70	0.193	0.30	0.88	80	833	40	10 015	1 128.1	1986	89 01
64	1.10	0.160	0.44	0.88	55	835	36	9 800	1 139.4	1985	87 05 - SUSP 89 01
64	3.37	0.180	0.33	0.80	88	816	50		1 313.3	1988	89 02
64	9.00	0.100	0.43	0.77	100	831	63	14 562	1 715.2	1986	88 12 - SUSP 86 08
768	5.90	0.100	0.16	0.73	114	820	85	3 100	2 396.7	1979	84 11
64	3.40	0.110	0.32	0.70	83	803	18	21 751	2 255.8	1979	83 12 - SUSP 81 03
53	4.40	0.150	0.32	0.84	54	875	52	8 340	1 499.7	1987	89 12
64	4.12	0.160	0.10	0.79	78	878	59	8 120	1 622.5	1988	89 12
64	1.50	0.115	0.24	0.85	52	892	64	9 752	1 643.3	1986	86 11 - SUSP 89 01
64	2.00	0.140	0.30	0.85	64	846	48		1 598.5	1988	89 05
64	11.30	0.190	0.30	0.89	44	891	33	11 800	1 044.7	1982	82 11 - ABAND 89 07
64	13.69	0.077	0.33	0.80	88	855	29	11 091	983.5	1987	87 09
64	5.20	0.135	0.42	0.87	52	862	35	11 141	1 041.6	1987	88 07 - SUSP 88 06
32	12.80	0.060	0.28	0.84	70	905	37		1 018.8	1988	89 04
143	3.76	0.152	0.22	0.83	50	887	35	12 266	1 326.0	1985	89 02
134	2.92	0.110	0.19	0.83	47	854	36	11 060	1 344.8	1986	89 02
64	5.00	0.180	0.30	0.88	47	854	36	12 638	1 331.5	1986	87 03
64	8.30	0.080	0.10	0.88	47	854	36	13 500	1 347.2	1986	87 11
64	3.50	0.126	0.14	0.83	75	880	36	12 506	1 334.9	1987	89 05
64	6.00	0.150	0.29	0.87	52	880	35	12 295	1 340.0	1987	88 04
64	8.34	0.110	0.21	0.87	52	900	35	12 000	1 356.1	1987	88 04
64	5.60	0.110	0.36	0.87	52	897	35	12 229	1 388.3	1987	88 04 - ABAND 88 12
105	4.19	0.140	0.19	0.89	49	849	35	11 439	1 360.8	1987	89 12

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
ENCHANT 012-16W4 (CONTINUED)								
ARCS L	142.0	0.15		21.3		21.3	0.8	20.5
ARCS M	395.0	0.20		79.0		79.0	7.1	71.9
ARCS N	95.1	0.15		14.3		14.3	4.7	9.6
ARCS O	112.0	0.15		16.8		16.8		16.8
ARCS S	184.0	0.15		27.6		27.6	0.6	27.0
ARCS T	293.0	0.10		29.3		29.3	2.9	26.4
ARCS F & G	3 103.0	0.15		465.0		465.0	85.2	379.8
ARCS P & R	550.0	0.15		82.0		82.0	6.2	75.8
ENTICE 027-24W4								
LOWER MANNVILLE A	331.0	0.02		6.6		6.6	4.0	2.6
PEKISKO A	260.0	0.03		7.8		7.8	4.6	3.2
EQUISETUM 088-06W5								
KEG RIVER A	39.8	0.25		10.0		10.0	0.7	9.3
KEG RIVER B	58.9	0.20		11.8		11.8	0.5	11.3
KEG RIVER C	152.0	0.20		30.4		30.4	2.9	27.5
ERSKINE 039-20W4								
BLAIRMORE F	192.0	<0.01		1.7		1.7	1.7	
BLAIRMORE G	193.0	0.10		19.3		19.3	1.7	17.6
BLAIRMORE J	465.0	0.10		46.5		46.5	20.5	26.0
BLAIRMORE P	150.0	<0.01		0.4		0.4	0.4	
BLAIRMORE W	206.0	<0.01		0.3		0.3	0.3	
BLAIRMORE X	89.6	0.10		9.0		9.0	3.8	5.2
GLAUCONITIC E	178.0	<0.01		0.1		0.1		0.1
GLAUCONITIC F	201.0	0.10		20.1		20.1	2.5	17.6
GLAUCONITIC I	149.0	0.05		7.5		7.5	0.5	7.0
D-2	456.0	0.10		45.6		45.6	40.5	5.1
D-2 B	59.3	<0.01		0.4		0.4	0.4	
D-2 C	41.6	<0.02		0.8		0.8	0.8	
D-2 E	116.0	<0.01		0.1		0.1	0.1	
D-3	6 390.0	0.60		3 830.0		3 830.0	3 682.7	147.3
ESTHER 032-02W4								
VIKING A	440.0	0.10		44.0		44.0	1.3	42.7
VIKING B & C	840.0	0.10		84.0		84.0	30.6	53.4
ESTUARY 023-22W4								
BASAL QUARTZ A	200.0	<0.01		0.1		0.1	0.1	
ETHEL 067-08W5								
BEAVERHILL LAKE A	1 290.0	0.01		12.9		12.9	9.6	3.3
EVI 087-13W5								
SLAVE POINT A	880.0	0.30		264.0		264.0	98.4	165.6
SLAVE POINT B	1 210.0	0.10		121.0		121.0	99.0	22.0
SLAVE POINT C	280.0	<0.04		10.6		10.6	10.6	
SLAVE POINT D	216.0	0.10		21.6		21.6	13.9	7.7
SLAVE POINT E	66.4	0.10		6.6		6.6	1.4	5.2
SLAVE POINT F	118.0	<0.03		2.5		2.5	2.5	
SLAVE POINT H	1 050.0	0.15		158.0		158.0	53.1	104.9
SLAVE POINT I	153.0	<0.05		7.0		7.0	7.0	
SLAVE POINT K	1 410.0	0.05		70.5		70.5	26.7	43.8
SLAVE POINT L	185.0	0.16		29.6		29.6	12.6	17.0
SLAVE POINT M	62.9	0.30		18.9		18.9	3.8	15.1
SLAVE POINT N	398.0	0.10		39.8		39.8	16.2	23.6
SLAVE POINT O	145.0	<0.01		0.3		0.3	0.3	
SLAVE POINT P	216.0	<0.01		0.2		0.2	0.2	
SLAVE POINT Q	188.0	0.15		28.2		28.2	2.6	25.6
SLAVE POINT R	289.0	<0.01		2.0		2.0	2.0	
SLAVE POINT S	369.0	0.20		73.8		73.8	14.9	58.9
GILWOOD A	1 015.0	0.20		203.0		203.0	127.1	75.9
GILWOOD B	175.0	0.25		43.8		43.8	31.2	12.6
GILWOOD D	191.0	0.20		38.2		38.2	32.1	6.1
GILWOOD G	53.2	0.20		10.6		10.6	8.8	1.8
GILWOOD H	181.0	0.15		27.2		27.2	8.7	18.5
GILWOOD I	710.0	0.25		178.0		178.0	88.6	89.4
GILWOOD J	238.0	0.25		59.5		59.5	29.3	30.2
GILWOOD K	292.0	0.10		29.2		29.2	8.6	20.6
GILWOOD L	184.0	0.25		46.0		46.0	37.2	8.8

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	4.50	0.084	0.34	0.89	49	870	35	12 340	1 361.0	1987	88 06
93	4.41	0.140	0.21	0.87	52	862	35	11 850	1 363.7	1988	89 12
64	2.90	0.090	0.36	0.89	49	883	35	12 161	1 381.5	1988	89 12
64	2.10	0.130	0.28	0.89	49	883	35		1 386.4	1988	88 12
64	4.00	0.140	0.38	0.83	80	890	39	12 210	1 337.5	1988	89 05
64	5.10	0.120	0.16	0.89	49	883	35		1 363.6	1988	89 06
192	17.23	0.130	0.18	0.88	52	898	35	12 139	1 355.6	1987	88 02
100	8.10	0.110	0.29	0.87	52	862	35		1 373.1	1988	89 01
64	3.00	0.260	0.21	0.84	67	884	44	10 850	1 575.8	1975	82 12 - SUSP 88 11
64	10.00	0.090	0.45	0.82	52	887	53	11 703	1 689.2	1980	83 12 - GPP
64	2.33	0.060	0.50	0.89	40	830	46	14 758	1 517.3	1987	88 06 - SUSP 88 11
64	2.50	0.056	0.27	0.90	32	824	39	14 507	1 489.0	1987	88 06 - SUSP 89 02
64	5.20	0.080	0.33	0.85	40	830	43	14 502	1 510.3	1988	88 11
64	3.10	0.190	0.42	0.88	48	899	50	9 900	1 385.1	1978	79 05 - ABAND 83 09
64	2.20	0.200	0.22	0.88	121	875	52	10 119	1 334.1	1980	85 05
192	2.29	0.190	0.36	0.87	47	880	46	9 991	1 340.2	1982	84 06
64	2.80	0.190	0.50	0.88	48	875	37	8 075	1 379.8	1953	88 12 - SUSP 86 09
64	3.30	0.190	0.39	0.84	64	900	54	9 883	1 348.1	1985	87 12 - SUSP 86 02
64	1.80	0.150	0.39	0.85	57	873	50	10 303	1 323.1	1981	82 09
64	2.40	0.200	0.30	0.83	68	877	44	9 797	1 329.9	1973	83 04 - ABAND 85 04
64	2.70	0.200	0.30	0.83	75	870	50	9 475	1 318.0	1981	81 07
64	2.40	0.180	0.35	0.83	68	877	44	9 360	1 334.7	1973	84 05
58	17.37	0.067	0.15	0.80	76	887	60	11 960	1 577.6	1955	73 12 - GPP
16	9.50	0.065	0.25	0.80	77	899	61	10 418	1 573.3	1980	84 12 - SUSP 84 03
32	3.19	0.060	0.15	0.80	54	887	60	11 304	1 576.2	1954	89 12 - ABAND 89 06
64	2.99	0.100	0.24	0.80	84	887	48	11 035	1 582.8	1984	85 02 - SUSP 84 10
1 720	8.60	0.062	0.15	0.82	84	887	61	15 270	1 642.0	1953	82 12 - GPP
256	1.67	0.220	0.48	0.90	38	871	29	6 696	710.0	1969	86 04
444	1.68	0.220	0.43	0.90	44	849	27	6 574	713.3	1974	86 03 - GPP
64	4.50	0.150	0.45	0.84	68	877	46	10 570	1 517.3	1980	83 12 - SUSP 81 11
519	7.19	0.057	0.17	0.73	99	815	67	21 550	2 292.7	1964	76 04 - GPP
384	5.64	0.062	0.28	0.91	171	833	38	16 364	1 573.8	1979	83 10
705	3.86	0.065	0.25	0.91	30	833	38	16 257	1 555.3	1979	89 12
64	5.00	0.120	0.20	0.91	33	833	38	15 810	1 576.5	1981	85 12 - ABAND 87 03
64	6.50	0.090	0.27	0.79	94	861	49	15 650	1 584.3	1982	86 12
64	3.00	0.060	0.27	0.79	94	833	49	15 649	1 528.3	1982	85 12 - GPP
64	4.00	0.080	0.27	0.79	94	833	49	15 926	1 543.0	1982	86 12 - SUSP 84 06
192	9.70	0.080	0.19	0.87	40	842	36	16 422	1 553.3	1983	87 12
64	6.00	0.060	0.27	0.91	32	833	38	16 793	1 545.0	1982	83 03 - ABAND 89 06
448	8.58	0.063	0.36	0.91	34	828	47	4 650	1 507.4	1980	87 12
64	13.60	0.039	0.40	0.91	42	827	66	15 558	1 507.3	1981	87 12
64	5.40	0.040	0.50	0.91	33	835	38	15 404	1 508.0	1983	84 01
141	6.82	0.078	0.41	0.90	33	794	40	14 997	1 483.1	1983	89 12
64	7.50	0.056	0.40	0.90	33	832	40	15 117	1 472.8	1984	88 12 - SUSP 86 03
64	6.80	0.080	0.31	0.90	33	840	40	15 099	1 471.2	1986	89 12 - SUSP 87 03
64	3.80	0.100	0.15	0.91	32	838	37	16 022	1 545.9	1984	87 04
64	6.00	0.120	0.31	0.91	35	841	37	16 331	1 553.0	1983	88 12 - SUSP 86 10
64	8.50	0.100	0.23	0.88	44	840	39	16 026	1 542.8	1984	84 03
192	4.49	0.207	0.28	0.79	45	820	49	16 745	1 590.2	1980	88 10
64	4.20	0.130	0.39	0.82	45	820	49	16 291	1 600.7	1982	89 12
192	1.27	0.147	0.35	0.82	66	833	41	16 333	1 645.2	1981	88 10
64	2.17	0.087	0.50	0.88	44	835	44	16 388	1 584.6	1982	84 05
64	1.80	0.240	0.20	0.82	45	833	49	16 754	1 593.9	1981	88 10
128	4.98	0.186	0.27	0.82	45	825	49	16 582	1 585.3	1979	88 10
64	3.00	0.170	0.17	0.88	62	835	43	16 317	1 575.7	1981	87 05
64	3.50	0.215	0.27	0.83	62	835	43	16 333	1 568.0	1981	84 12
128	2.48	0.110	0.40	0.88	36	833	42	15 410	1 515.2	1982	88 10

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
EVI 087-13W5 (CONTINUED)								
GILWOOD O	243.0	0.20		48.6		48.6	36.0	12.6
GILWOOD P	132.0	0.20		26.4		26.4	7.9	18.5
GILWOOD R	93.8	0.20		18.7		18.7	14.0	4.7
GILWOOD S	13.0	<0.15		1.9		1.9	1.9	
GILWOOD T	42.4	0.15		6.4		6.4	2.8	3.6
GILWOOD W	152.0	0.25		38.0		38.0	20.4	17.6
GILWOOD V & GRANITE WASH K	102.0	0.13		13.5		13.5	10.4	3.1
KEG RIVER D	82.1	0.25		20.5		20.5		20.5
KEG RIVER A & GRANITE WASH N	4 830.0	0.35		1 690.0		1 690.0	512.5	1 177.5
KEG RIVER B & GRANITE WASH P	5 308.0	0.25		1 327.0		1 327.0	410.7	916.3
GRANITE WASH G	100.0	0.20		20.0		20.0	12.0	8.0
GRANITE WASH H	133.0	0.30		39.9		39.9	25.9	14.0
GRANITE WASH I	75.6	0.15		11.3		11.3	8.4	2.9
GRANITE WASH L	152.0	0.25		38.0		38.0	28.1	9.9
GRANITE WASH M	35.0	<0.14		4.8		4.8	4.8	
EWING LAKE 037-21W4								
D-2 C	543.0	0.35		190.0		190.0	151.3	38.7
D-2 D	2 039.0	0.35		714.0		714.0	445.2	268.8
D-2 E	121.0	<0.02		1.3		1.3	1.3	
D-2 F	246.0	0.10		24.6		24.6	2.2	22.4
D-3 A	516.0	0.55		284.0		284.0	276.4	7.6
D-3 B	252.0	0.20		50.4		50.4	22.4	28.0
EXCELSIOR 055-24W4								
MANNVILLE A	1 800.0	<0.01		0.7		0.7	0.7	
WABAMUN A	528.0	0.15		79.2		79.2	13.9	65.3
D-2	6 800.0	0.65		4 420.0	ERSO	4 420.0	4 307.5	112.5
FAIRYDELL-BOW ACCORD 057-24W4								
UPPER VIKING B	234.0	<0.09		20.0		20.0	20.0	
MIDDLE VIKING C	36.9	<0.10		3.4		3.4	3.4	
BASAL MANNVILLE A	287.0	0.05		14.4		14.4	1.2	13.2
BASAL MANNVILLE C	2 756.0	0.05		138.0		138.0	96.5	41.5
BASAL MANNVILLE H	350.0	<0.01		0.5		0.5	0.5	
BASAL MANNVILLE J	511.0	<0.01		0.8		0.8	0.8	
D-2 A	1 030.0	<0.13		124.6		124.6	124.6	
D-2 B	671.0	0.45		302.0		302.0	295.1	6.9
D-3 A	2 770.0	0.72		2 000.0		2 000.0	1 850.3	149.7
D-3 B	210.0	0.05		10.5		10.5	1.2	9.3
FARRELL 034-16W4								
LOWER MANNVILLE A	104.0	<0.01		0.1		0.1	0.1	
FARROW 020-24W4								
BOW ISLAND A	95.6	0.05		4.8		4.8	0.7	4.1
BASAL QUARTZ B	503.0	0.10		50.3		50.3	13.6	36.7
BASAL QUARTZ E	135.0	0.03		2.9		2.9	0.6	2.3
BASAL QUARTZ F	230.0	0.10		23.0		23.0	1.5	21.5
BASAL QUARTZ G	132.0	0.07		9.2		9.2	7.4	1.8
SAWTOOTH A	98.0	0.10		9.8		9.8	0.1	9.7
FENN WEST 036-20W4								
BANFF A	11.8	<0.17		1.9		1.9	1.9	
D-2 A	2 600.0	0.60		1 560.0		1 560.0	1 433.8	126.2
D-2 B	154.0	<0.03		3.1		3.1	3.1	
D-2 C	690.0	0.15		104.0		104.0	48.1	55.9
D-2 D	374.0	0.15		56.1		56.1	33.2	22.9
D-2 E	400.0	0.40		160.0		160.0	69.8	90.2
D-3 A	559.0	0.10		55.9		55.9	40.0	15.9
D-3 B	154.0	0.05		7.7		7.7	4.6	3.1
D-3 C	375.0	0.40		150.0		150.0	109.7	40.3
D-3 D	79.7	<0.01		0.1		0.1	0.1	
D-3 E	1 480.0	0.45		666.0		666.0	454.1	211.9
D-3 F	171.0	0.20		34.2		34.2	18.0	16.2
D-3 G	987.0	<0.02		14.4		14.4	13.9	0.5

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
192	1.74	0.120	0.31	0.88	36	846	42	16 365	1 578.0	1981	88 04
64	2.00	0.180	0.30	0.82	45	833	49	16 439	1 688.0	1982	88 10
128	1.66	0.100	0.50	0.88	36	854	42	13 115	1 606.5	1982	88 10
64	0.82	0.040	0.30	0.88	44	854	39	15 376	1 613.0	1982	85 12 - ABAND 88 03
64	1.34	0.076	0.26	0.88	36	845	42	14 804	1 630.5	1983	88 03
64	2.82	0.160	0.40	0.88	62	840	45	15 531	1 578.0	1982	89 12
64	1.92	0.150	0.38	0.89	34	845	43	16 155	1 602.0	1982	88 04
64	2.50	0.094	0.40	0.91	76	830	35		1 506.2	1987	89 06
840	4.28	0.212	0.28	0.88	53	824	38	16 055	1 496.4	1986	89 10
448	9.84	0.194	0.27	0.85	50	828	36	15 885	1 491.9	1986	87 12
103	2.20	0.100	0.51	0.90	33	833	43	16 464	1 597.4	1982	88 12
64	2.00	0.210	0.45	0.90	34	845	43	16 720	1 609.0	1982	88 12
16	4.00	0.175	0.25	0.90	34	845	43	16 704	1 608.1	1982	88 12
64	3.00	0.160	0.45	0.90	34	845	43	16 940	1 608.3	1982	88 12
25	2.00	0.150	0.48	0.90	64	844	43	16 430	1 612.8	1983	85 05 - ABAND 89 08
460	2.56	0.067	0.16	0.82	66	855	66	12 480	1 637.7	1960	89 12 - GPP
172	3.74	0.070	0.17	0.80	66	876	66	12 550	2 292.7	1953	89 12 - GPP
64	5.90	0.080	0.50	0.80	66	876	66	12 605	1 636.1	1981	87 12 - SUSP 86 11
64	5.20	0.100	0.10	0.82	65	873	64	11 843	1 631.6	1986	87 05
322	4.18	0.057	0.18	0.82	69	870	60	13 100	1 670.0	1953	79 12 - GPP
32	18.50	0.070	0.26	0.82	71	844	58	12 453	1 668.9	1980	84 10
797	2.13	0.204	0.35	0.80	30	876	38	6 900	1 072.3	1953	84 12 - SUSP 80 03
300	3.90	0.090	0.41	0.85	60	850	35	7 400	1 141.3	1986	89 07
565	25.14	0.064	0.15	0.88	39	844	48	8 650	1 182.3	1949	87 02 - GPP
100	1.83	0.200	0.20	0.80	43	860	38	5 464	836.4	1953	89 12 - SUSP 86 11
64	0.90	0.200	0.60	0.80	43	860	38	5 500	843.0	1961	85 09
32	5.80	0.240	0.30	0.92	40	909	38	6 605	1 049.6	1951	84 04 - GPP
274	6.70	0.220	0.25	0.91	35	887	42	7 250	1 066.2	1965	89 11 - GPP
32	6.00	0.260	0.22	0.90	40	900	32	7 221	1 066.8	1976	85 07 - SUSP 85 09
64	7.50	0.180	0.35	0.91	40	900	32		1 055.0	1979	89 11 - GPP
306	5.18	0.083	0.15	0.92	27	870	42	7 760	1 093.6	1949	64 04 - ABAND 62 01
214	7.19	0.057	0.17	0.92	27	870	41	8 170	1 148.2	1954	68 02 - GPP
405	13.75	0.063	0.15	0.93	33	898	47	9 100	1 226.5	1953	85 05 - GPP
16	13.70	0.110	0.10	0.97	20	990	38	9 087	1 198.7	1987	88 06 - SUSP 89 07
64	2.40	0.130	0.40	0.87	42	890	70	8 726	1 220.8	1976	82 09 - ABAND 88 07
64	3.00	0.120	0.50	0.83	62	854	43	7 848	1 437.2	1987	88 01
320	1.76	0.168	0.36	0.83	60	867	59	13 734	1 754.7	1987	88 08
64	3.00	0.170	0.50	0.83	83	838	45	14 694	1 830.0	1988	88 08
64	4.90	0.130	0.32	0.83	83	839	45	14 355	1 744.3	1988	88 11
64	1.52	0.200	0.15	0.80	80	834	54		1 700.3	1971	89 10
64	3.40	0.120	0.55	0.83	68	867	42	14 978	1 857.1	1987	88 06
5	7.93	0.070	0.50	0.85	71	855	44	7 660	1 422.2	1977	79 10 - ABAND 81 02
202	6.35	0.056	0.24	0.80	81	860	61	12 410	1 699.9	1961	84 11
64	5.00	0.090	0.35	0.82	20	866	33	11 901	1 633.5	1980	80 09 - ABAND 82 06
128	12.19	0.070	0.22	0.81	73	846	62	12 300	1 725.2	1982	86 12
64	12.90	0.070	0.21	0.82	70	847	63	12 435	1 743.4	1982	89 01
84	12.40	0.058	0.22	0.84	73	865	62	12 483	1 730.6	1983	84 08
64	15.50	0.080	0.20	0.88	35	849	55	12 891	1 783.2	1982	86 12
64	7.26	0.048	0.15	0.81	89	858	58	12 620	1 754.6	1982	86 12
14	40.20	0.091	0.10	0.80	67	860	61	13 094	1 820.6	1982	85 03
64	5.00	0.040	0.25	0.83	67	893	60	10 052	1 804.8	1982	83 03 - SUSP 82 12
56	55.13	0.069	0.14	0.81	76	848	65	13 111	1 794.7	1983	87 01
20	21.60	0.062	0.21	0.81	76	861	67	12 895	1 801.8	1984	89 12
64	24.00	0.103	0.23	0.81	75	860	65	12 512	1 793.7	1985	85 11 - ABAND 88 08

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
FENN-BIG VALLEY								
035-20W4								
VIKING D	185.0	<0.01		0.6		0.6	0.6	
BLAIRMORE B	357.0	<0.01		2.3		2.3	2.3	
UPPER MANNVILLE A	168.0	0.10		16.8		16.8	4.7	12.1
D-2 A TOTAL	80 000.0			48 000.0	302.0	48 300.0	47 670.6	629.4
PRIMARY AREA	74 200.0	<0.62		45 290.0		45 290.0		
SOLVENT FLOOD AREA	5 800.0	<0.47	0.05	2 714.0	302.0	3 016.0		
D-2 B	99.5	<0.02		1.1		1.1	1.1	
BIG VALLEY D-3 A	642.0	0.75		482.0		482.0	435.0	47.0
BIG VALLEY D-3 B	261.0	0.45		117.0		117.0	91.6	25.4
FENN D-3 C	110.0	0.40		44.0		44.0	33.9	10.1
FENN D-3 E	329.0	0.17		55.9		55.9	46.8	9.1
FENN D-3 F	3 000.0	0.75		2 250.0		2 250.0	2 054.1	195.9
D-3 G	260.0	0.20		52.0		52.0	18.3	33.7
D-3 H	47.7	0.25		11.9		11.9	0.7	11.2
FERRIER 040-08W5								
BELLY RIVER A	4 900.0	<0.17		800.0		800.0	390.5	409.5
BELLY RIVER C	358.0	0.10		35.8		35.8	19.0	16.8
BELLY RIVER E	937.0	<0.01		0.5		0.5	0.5	
BELLY RIVER F	95.6	<0.01		0.7		0.7	0.7	
BELLY RIVER H	36.6	<0.01		0.2		0.2	0.2	
CARDIUM C	248.0	0.05		12.4		12.4	6.3	6.1
CARDIUM D TOTAL	18 900.0			942.0	2 200.0	3 142.0	1 985.5	1 156.5
PRIMARY AREA	1 240.0	0.05		62.0		62.0		
WATER FLOOD AREA	17 700.0	0.05	0.12	880.0	2 200.0	3 080.0		
CARDIUM E TOTAL	31 300.0			2 480.0	2 440.0	4 920.0	2 901.9	2 018.1
PRIMARY AREA	857.0	0.05		43.0		43.0		
WATER FLOOD AREA	30 400.0	0.08	0.08	2 440.0	2 440.0	4 880.0		
CARDIUM F	94.7	0.10		9.5		9.5	0.8	8.7
CARDIUM R	40.6	<0.05		1.8		1.8	1.8	
CARDIUM U	182.0	0.10		18.2		18.2	5.8	12.4
CARDIUM X	185.0	<0.01		0.4		0.4	0.4	
CARDIUM BB	140.0	<0.01		0.2		0.2	0.2	
CARDIUM GG	126.0	<0.01		0.1		0.1	0.1	
CARDIUM LL	167.0	0.05		8.4		8.4	0.7	7.7
CARDIUM G & L TOTAL	23 200.0			1 158.0	2 500.0	3 658.0	1 682.9	1 975.1
PRIMARY AREA	4 550.0	0.05		228.0		228.0		
WATER FLOOD AREA	18 600.0	0.05	0.14	930.0	2 500.0	3 430.0		
CARDIUM B, N & VIKING A	2 880.0	0.15		432.0		432.0	338.9	93.1
VIKING C	76.8	0.15		11.5		11.5	9.5	2.0
VIKING D	65.9	0.10		6.6		6.6	4.6	2.0
VIKING E	61.3	<0.05		3.0		3.0	3.0	
VIKING F	60.0	0.15		9.0		9.0	7.2	1.8
VIKING G	400.0	0.10		40.0		40.0	6.9	33.1
ELLERSLIE C	311.0	0.10		31.1		31.1	10.0	21.1
ROCK CREEK B	107.0	<0.01		0.2		0.2	0.2	
SHUNDA A	132.0	<0.01		0.4		0.4	0.4	
FERRYBANK 044-27W4								
BELLY RIVER I	396.0	0.05		19.8		19.8		19.8
BELLY RIVER C, G & H	18 990.0	0.10		1 899.0		1 899.0	414.0	1 485.0
GLAUCONITIC C	396.0	<0.01		0.5		0.5	0.5	
LOWER MANNVILLE G	226.0	<0.02		4.2		4.2	4.2	
LOWER MANNVILLE I	155.1	0.05		7.8		7.8	5.1	2.7
LOWER MANNVILLE M	326.0	<0.01		1.4		1.4	1.4	
BANFF C	285.0	0.05		14.3		14.3	0.5	13.8
BANFF D	183.0	<0.02		2.9		2.9	2.9	
FIR 059-21W5								
CARDIUM A	135.0	0.10		13.5		13.5	5.9	7.6
CARDIUM B	94.6	0.10		9.5		9.5	3.0	6.5
CARDIUM C	25.0	0.20		5.0		5.0		5.0
FIRE 113-07W6								
KEG RIVER A	256.0	<0.05		11.7		11.7	11.7	
KEG RIVER B	136.0	<0.01		0.3		0.3	0.3	
KEG RIVER C	227.0	0.20		45.4		45.4	20.7	24.7
KEG RIVER D	150.0	0.25		37.5		37.5	2.2	35.3
KEG RIVER E	1 414.0	0.25		354.0		354.0	16.5	337.5
KEG RIVER F	185.0	0.25		46.3		46.3	6.7	39.6

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.50	0.170	0.40	0.81	70	857	60	6 405	1 195.6	1954	82 11 - SUSP 84 09
64	5.10	0.200	0.25	0.73	90	846	47	8 906	1 292.6	1952	84 12 - SUSP 85 04
64	2.00	0.230	0.32	0.84	53	890	39	7 995	1 200.0	1984	86 05
5 994					77	865	58	12 480	1 612.1	1950	88 09 - GPP
4 971	17.06	0.120	0.10	0.81							
1 023	9.93	0.082	0.14	0.81							
64	4.63	0.060	0.30	0.80	78	855	52	12 920	1 628.7	1976	78 04 - SUSP 81 02
369	4.42	0.060	0.20	0.82	76	849	58	12 820	1 637.7	1950	86 12 - GPP
119	3.81	0.085	0.15	0.80	80	876	59	12 510	1 644.1	1954	65 02 - GPP
101	2.44	0.067	0.18	0.81	73	892	60	12 410	1 645.3	1952	87 05
182	3.05	0.085	0.15	0.82	73	865	58	12 760	1 620.3	1953	81 12 - GPP
626	6.64	0.100	0.12	0.82	73	898	61	12 690	1 651.7	1954	84 11 - GPP
128	3.40	0.090	0.17	0.80	73	904	41	12 560	1 584.7	1952	88 09 - GPP
16	3.10	0.120	0.12	0.91	38	960	57	11 725	1 646.5	1983	83 09
1 777	4.60	0.120	0.40	0.83	62	820	59	9 476	1 713.3	1966	88 07
65	7.32	0.130	0.30	0.83	66	829	54	8 430	1 627.0	1974	76 01 - GPP
64	12.00	0.210	0.30	0.83	70	898	50	9 866	1 715.5	1980	84 12 - ABAND 82 07
64	3.00	0.120	0.50	0.83	54	830	57	8 965	1 615.8	1982	83 04 - SUSP 85 08
64	1.13	0.111	0.45	0.83	61	834	55	9 300	1 703.2	1984	89 12 - SUSP 87 03
434	0.87	0.120	0.27	0.75	166	806	71	23 170	2 200.2	1961	89 09 - GPP
6 912					169	825	77	21 510	2 093.4	1963	86 07 - GPP
512	3.21	0.130	0.12	0.66							
6 400	3.15	0.151	0.12	0.66							
6 285					198	811	54	21 750	2 135.4	1965	85 08 - GPP
448	2.45	0.148	0.12	0.60							
5 837	6.66	0.148	0.12	0.60							
65	1.52	0.140	0.12	0.78	133	834	52	21 130	2 008.6	1958	88 07 - GPP
64	1.50	0.080	0.20	0.66	209	817	74	23 240	2 318.0	1976	83 12 - SUSP 80 08
64	5.52	0.096	0.20	0.67	218	824	71	24 764	2 283.4	1976	81 02 - GPP
64	4.40	0.123	0.15	0.63	175	824	75	21 239	2 204.6	1980	83 12 - SUSP 81 11
64	2.95	0.140	0.20	0.66	150	813	70	20 153	2 303.7	1976	82 05 - SUSP 82 06
64	2.40	0.140	0.15	0.69	180	806	70	21 760	2 199.0	1980	84 10 - SUSP 84 08
64	2.74	0.170	0.15	0.66	160	811	66	21 370	2 205.0	1976	89 11 - SUSP 88 01
10 008					190	806	70	21 600	2 180.3	1966	87 12 - GPP
2 029	3.35	0.125	0.15	0.63							
7 979	3.30	0.132	0.15	0.63							
6 066	1.50	0.078	0.30	0.58	273	811	78	28 750	2 499.1	1955	84 12 - GPP
64	2.50	0.100	0.20	0.60	190	825	73	26 204	2 461.8	1979	83 12
64	3.00	0.075	0.25	0.61	217	823	81	26 080	2 377.9	1982	89 12
64	2.00	0.090	0.25	0.71	134	836	93	25 610	2 502.0	1979	89 12 - SUSP 89 07
125	1.00	0.090	0.25	0.71	140	815	84	28 100	2 483.7	1985	87 05 - GPP
200	4.19	0.101	0.25	0.63	243	825	77		2 374.5	1988	89 07
64	7.15	0.130	0.13	0.60	190	797	84	23 806	2 667.5	1979	86 09
64	3.50	0.085	0.24	0.74	120	828	70	22 110	2 563.9	1982	83 04 - SUSP 83 05
65	5.18	0.083	0.25	0.63	195	815	81	22 510	2 602.7	1965	67 04 - ABAND 67 11
5 239	5.20	0.190	0.32	0.92	30	850	36		940.2	1988	89 06
64	4.46	0.190	0.53	0.91	28	850	38	5 736	976.3	1985	88 08
64	5.30	0.180	0.19	0.80	88	860	30	13 100	1 734.9	1985	85 11 - SUSP 85 10
64	4.00	0.160	0.31	0.80	82	860	60	10 430	1 705.0	1979	79 10 - SUSP 82 07
53	2.50	0.190	0.23	0.80	76	894	57	12 484	1 682.0	1982	86 07 - GPP
128	4.24	0.120	0.35	0.77	95	820	66	13 604	1 741.8	1984	85 10 - SUSP 85 08
32	11.40	0.150	0.35	0.80	45	905	55	8 421	1 725.0	1985	85 06
64	6.31	0.090	0.37	0.80	55	905	64	11 005	1 757.1	1985	89 12 - SUSP 86 02
64	3.70	0.100	0.25	0.76	107	850	56	20 602	1 854.7	1977	81 02
64	2.60	0.110	0.32	0.76	105	836	60	20 799	1 895.3	1980	86 01
121	0.46	0.100	0.30	0.64	185	793	86		1 875.5	1988	89 12
22	61.70	0.035	0.30	0.77	95	844	77	15 540	1 546.9	1969	88 12 - SUSP 86 03
20	36.58	0.034	0.30	0.77	95	849	77	15 420	1 539.5	1970	71 12 - ABAND 71 10
17	53.16	0.040	0.20	0.77	95	844	77	15 090	1 533.8	1969	82 12 - GPP
20	48.34	0.031	0.35	0.77	86	875	68	15 163	1 524.3	1986	86 08
64	83.90	0.045	0.24	0.77	95	857	77	15 495	1 600.5	1987	87 05
41	43.94	0.020	0.35	0.79	74	844	74	7 872	1 534.0	1986	88 03

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE 10 ³ m ³	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION 10 ³ m ³	REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY frac	ENHANCED frac	PRIMARY 10 ³ m ³	ENHANCED 10 ³ m ³	TOTAL 10 ³ m ³		
FIRE 113-07W6 (CONTINUED) KEG RIVER G	120.0	0.25		30.0		30.0	3.3	26.7
FOURTH 082-09W6 HALFWAY A	712.0	0.05		35.6		35.6	8.5	27.1
FOX CREEK 062-18W5 GETHING B	2 974.0	0.05		149.0		149.0	36.2	112.8
GETHING D & H	516.0	0.10		51.6		51.6	7.0	44.6
BEAVERHILL LAKE A	1 700.0			255.1	321.0	576.1	424.7	151.4
TOTAL								
PRIMARY AREA	95.2	0.15		14.3		14.3		
WATER FLOOD AREA	1 605.0	0.15	0.20	240.8	321.0	561.8		
BEAVERHILL LAKE B	42.5	0.20		8.5		8.5	0.8	7.7
GALAHAD 041-15W4 ELLERSLIE A	112.0	<0.02		2.1		2.1	2.1	
ELLERSLIE E	188.0	0.05		9.4		9.4		9.4
CAMROSE A	252.0	0.15		37.8		37.8	19.0	18.8
GARDEN PLAINS 032-13W4 UPPER MANNVILLE C	520.0	0.05		26.0		26.0	1.5	24.5
GARRINGTON 034-04W5 CARDIUM F	141.0	<0.01		0.1		0.1	0.1	
CARDIUM G	114.0	<0.01		1.0		1.0	1.0	
CARDIUM H	23.8	<0.02		0.3		0.3	0.3	
CARDIUM I	197.0	0.10		19.7		19.7	6.3	13.4
CARDIUM L	95.7	<0.02		1.7		1.7	1.7	
CARDIUM M	1 388.0	0.10		139.0		139.0	63.0	76.0
CARDIUM N	300.0	0.15		45.0		45.0	24.9	20.1
CARDIUM O	133.0	0.05		6.7		6.7	1.8	4.9
CARDIUM P	272.0	0.05		13.6		13.6	1.0	12.6
CARDIUM Q	100.0	0.20		20.0		20.0	17.2	2.8
CARDIUM R	43.2	0.10		4.3		4.3	0.1	4.2
CARDIUM T	117.0	0.05		5.9		5.9	0.4	5.5
CARDIUM A & B TOTAL	31 600.0			1 580.0	1 650.0	3 230.0	2 919.4	310.6
PRIMARY AREA	11 400.0	0.05		570.0		570.0		
WATER FLOOD AREA	20 200.0	0.05	0.08	1 010.0	1 650.0	2 660.0		
SECOND WHITE	87.5	<0.03		2.1		2.1	2.1	
SPECKS A								
SECOND WHITE	163.0	0.15		24.5		24.5	13.6	10.9
SPECKS B								
SECOND WHITE	425.0	<0.01		1.3		1.3	1.3	
SPECKS C								
SECOND WHITE	94.2	<0.01		0.1		0.1	0.1	
SPECKS D								
SECOND WHITE	139.0	0.10		13.9		13.9	2.9	11.0
SPECKS E								
SECOND WHITE	81.9	0.10		8.2		8.2	4.7	3.5
SPECKS F								
SECOND WHITE	316.0	0.10		31.6		31.6	9.0	22.6
SPECKS G								
SECOND WHITE	115.0	0.10		11.5		11.5	1.2	10.3
SPECKS H								
VIKING A	13 000.0	0.10		1 300.0		1 300.0	654.0	646.0
VIKING C	132.0	0.10		13.2		13.2	2.7	10.5
VIKING F	302.0	0.10		30.2		30.2	24.5	5.7
VIKING G	183.0	<0.02		2.1		2.1	2.1	
VIKING J	72.4	0.20		14.5		14.5	7.6	6.9
VIKING K	194.0	0.20		38.8		38.8	21.5	17.3
VIKING L	197.0	0.03		5.9		5.9	3.8	2.1
VIKING N	331.0	0.10		33.1		33.1	12.1	21.0
VIKING Q	734.0	0.10		73.4		73.4	56.1	17.3
VIKING S	58.1	<0.01		0.5		0.5	0.5	
VIKING Y	71.0	0.05		3.6		3.6	0.1	3.5
MANNVILLE B	9 720.0	<0.08		720.0		720.0	675.7	44.3
MANNVILLE D	3 400.0	0.07		240.0		240.0	200.2	39.8
MANNVILLE I	620.0	0.20		124.0		124.0	72.5	51.5
MANNVILLE L	15.3	0.10		1.6		1.6	0.7	0.9
MANNVILLE M	212.0	0.05		10.6		10.6	4.7	5.9

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
22	29.90	0.034	0.27	0.73	115	851	67	15 230	1 518.2	1970	87 05
256	4.67	0.108	0.31	0.80	79	844	50	11 716	1 298.0	1979	89 12
745	5.11	0.150	0.38	0.84	64	882	59	14 642	1 919.1	1977	89 10
128	5.20	0.170	0.43	0.80	76	893	61	14 774	1 901.5	1978	88 07 - GPP
1 200					530	795	110	28 730	3 086.7	1975	87 02
64	3.10	0.150	0.20	0.40							
1 136	5.38	0.082	0.20	0.40							
64	4.11	0.056	0.24	0.38	508	801	110	28 893	3 089.6	1976	87 01
16	4.30	0.240	0.20	0.85	60	887	40	8 155	1 055.2	1983	89 12 - SUSP 86 12
64	2.80	0.190	0.40	0.92	18	886	29		1 097.9	1988	89 05
64	4.75	0.140	0.26	0.80	80	929	51	8 665	1 169.4	1983	89 05
64	8.00	0.230	0.48	0.85	64	845	38		1 122.6	1988	89 10
64	2.70	0.120	0.15	0.80	68	820	75	20 200	1 852.9	1981	82 05 - ABAND 82 03
64	3.00	0.100	0.25	0.79	90	820	60	20 300	1 846.9	1981	82 06 - ABAND 84 05
128	0.56	0.060	0.30	0.79	85	828	60	22 961	1 837.4	1982	83 03 - ABAND 84 05
128	2.83	0.080	0.15	0.80	89	823	59	23 123	1 863.5	1982	84 09
64	2.00	0.110	0.15	0.80	89	822	59	23 183	1 832.3	1983	89 12 - SUSP 87 06
1 444	1.68	0.110	0.35	0.80	48	843	67	15 616	1 880.0	1960	88 12
350	1.16	0.120	0.23	0.80	96	843	68	22 238	1 885.5	1976	88 12
64	3.10	0.100	0.15	0.79	88	819	60	20 131	1 945.8	1984	89 12
128	4.30	0.120	0.45	0.75	96	845	68	14 658	2 027.0	1985	89 12
104	1.46	0.104	0.13	0.76	108	840	64	24 038	2 185.0	1963	88 12 - GPP
64	1.20	0.100	0.25	0.75	106	825	63	22 390	1 908.4	1983	86 05 - SUSP 88 09
64	2.60	0.110	0.20	0.80	85	817	59	18 690	1 810.5	1980	88 06
15 434					109	829	64	24 550	2 022.0	1954	84 06
5 521	3.24	0.100	0.15	0.75							
9 913	3.20	0.100	0.15	0.75							
64	3.20	0.090	0.35	0.73	115	823	64	17 307	2 314.1	1981	- GPP 89 12 - SUSP 87 09
64	8.70	0.050	0.20	0.73	110	815	70	24 698	2 202.7	1984	88 12
64	13.00	0.100	0.30	0.73	110	819	67	23 031	2 105.5	1984	88 06 - ABAND 88 03
64	8.40	0.030	0.20	0.73	115	815	53	23 816	2 137.4	1985	86 03 - ABAND 88 03
64	8.50	0.050	0.20	0.64	177	823	84	23 292	2 301.8	1985	86 10
64	5.00	0.050	0.20	0.64	177	816	84	20 650	2 234.3	1984	86 12
64	6.50	0.130	0.20	0.73	120	789	73	25 434	2 264.3	1984	84 08
64	7.00	0.050	0.20	0.64	177	791	84	20 438	2 229.3	1987	88 09
3 264	7.44	0.100	0.37	0.85	57	841	64	9 336	2 095.5	1978	85 01
64	3.60	0.105	0.35	0.84	51	841	71	10 052	2 382.2	1982	83 04
65	6.71	0.120	0.30	0.83	128	820	53	8 960	2 002.6	1963	73 12 - SUSP 89 07
64	4.80	0.100	0.29	0.84	51	842	71	7 895	2 117.0	1983	89 12 - SUSP 86 11
116	1.87	0.053	0.25	0.84	51	842	71	8 937	2 081.6	1983	87 12
128	2.95	0.090	0.32	0.84	51	840	71	17 241	2 262.6	1979	88 07
64	7.35	0.087	0.35	0.74	110	832	71	8 117	2 001.2	1981	86 12
128	4.00	0.110	0.30	0.84	68	835	75	17 780	2 352.5	1984	88 06
384	4.81	0.080	0.32	0.73	110	842	77	21 000	2 501.5	1984	88 07
64	1.50	0.120	0.40	0.84	68	835	75	17 988	2 389.0	1985	86 10 - ABAND 87 10
64	2.10	0.088	0.25	0.80	71	839	71	11 192	2 201.8	1975	89 11 - GPP
5 433	4.11	0.128	0.15	0.40	385	797	68	32 000	2 405.8	1963	88 12 - GPP
2 560	2.51	0.106	0.22	0.64	85	874	60	27 421	2 560.8	1975	87 05
161	4.58	0.160	0.18	0.64	181	864	81	29 203	2 614.0	1982	86 12
64	0.40	0.110	0.14	0.64	250	821	97	27 450	2 564.4	1984	85 10
128	3.10	0.110	0.24	0.64	181	874	81	27 025	2 516.6	1984	88 12

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
GARRINGTON 034-04W5 (CONTINUED)								
MANNVILLE N	63.9	<0.01		0.1		0.1	0.1	
MANNVILLE O	884.0	0.01		8.8		8.8	0.4	8.4
LOWER MANNVILLE A	83.0	<0.02		1.4		1.4	1.4	
LOWER MANNVILLE B	37.8	0.05		1.9		1.9	1.0	0.9
LOWER MANNVILLE D	83.6	<0.05		4.0		4.0		4.0
LOWER MANNVILLE E	403.0	0.03		12.1		12.1	3.6	8.5
LOWER MANNVILLE I	257.0	<0.01		0.7		0.7	0.7	
LOWER MANNVILLE J	130.0	0.10		13.0		13.0	5.5	7.5
LOWER MANNVILLE P	63.0	0.10		6.3		6.3	3.3	3.0
LOWER MANNVILLE S	163.0	<0.01		0.9		0.9	0.9	
LOWER MANNVILLE T	160.0	0.10		16.0		16.0	1.0	15.0
LOWER MANNVILLE U	69.6	<0.01		0.3		0.3	0.3	
LOWER MANNVILLE Y	128.0	<0.02		2.1		2.1	2.1	
LOWER MANNVILLE Z	446.0	<0.01		3.7		3.7	3.7	
LOWER MANNVILLE KK	105.0	0.10		10.5		10.5	1.6	8.9
LOWER MANNVILLE MM	17.0	0.10		1.7		1.7	0.1	1.6
LOWER MANNVILLE NN	28.7	0.05		1.4		1.4	0.4	1.0
LOWER MANNVILLE OO	47.8	0.05		2.4		2.4	0.3	2.1
LOWER MANNVILLE PP	71.7	<0.01		0.3		0.3	0.3	
LOWER MANNVILLE UU	149.0	0.05		7.5		7.5	0.3	7.2
LOWER MANNVILLE VV	149.0	0.05		7.5		7.5	0.4	7.1
LOWER MANNVILLE WW	83.3	0.05		4.2		4.2	0.5	3.7
LOWER MANNVILLE XX	42.9	0.05		2.2		2.2	0.5	1.7
LOWER MANNVILLE N & O	450.0	0.10		45.0		45.0	30.0	15.0
LOWER MANNVILLE CC, DD & EE	240.0	0.10		24.0		24.0	4.8	19.2
LOWER MANNVILLE GG, HH & II	439.0	0.10		43.9		43.9	9.9	34.0
LOWER MANNVILLE O & CCC	590.0	0.05		29.5		29.5	9.8	19.7
LOWER MANNVILLE AAA	47.3	0.05		2.4		2.4	0.6	1.8
LOWER MANNVILLE BBB	104.0	0.05		5.2		5.2	0.6	4.6
LOWER MANNVILLE DDD	36.2	0.10		3.6		3.6	0.6	3.0
LOWER MANNVILLE EEE	59.5	0.10		6.0		6.0	0.3	5.7
LOWER MANNVILLE FFF	100.0	0.10		10.0		10.0	0.5	9.5
LOWER MANNVILLE GGG	37.0	0.10		3.7		3.7	0.2	3.5
LOWER MANNVILLE JJJ	305.0	0.10		30.5		30.5	0.6	29.9
ROCK CREEK B	218.0	0.10		21.8		21.8	1.8	20.0
ROCK CREEK C	294.0	0.05		14.7		14.7	0.1	14.6
ELKTON-SHUNDA A	52.5	<0.02		0.7		0.7	0.7	
WABAMUN A	6 470.0	0.20		1 290.0		1 290.0	1 163.8	126.2
NISKU A	211.0	0.15		31.6		31.6	1.9	29.7
LEDUC D	380.0	0.35		133.0		133.0	11.7	121.3
GENESEE 050-03W5								
ELLERSLIE A	26.6	<0.01		0.1		0.1	0.1	
ELLERSLIE B	86.3	0.10		8.6		8.6	7.8	0.8
GEORGE 082-05W6								
DEBOLT B	126.0	0.05		6.3		6.3	1.5	4.8
GHOST PINE 031-22W4								
UPPER MANNVILLE V	1 010.0	<0.02		16.0		16.0	16.0	
UPPER MANNVILLE W	200.0	<0.01		0.2		0.2	0.2	
UPPER MANNVILLE HH	281.0	0.07		19.7		19.7	16.9	2.8
UPPER MANNVILLE LL	132.0	0.05		6.6		6.6	5.7	0.9
UPPER MANNVILLE NN	116.0	<0.01		0.6		0.6	0.6	
UPPER MANNVILLE RR	264.0	0.10		26.4		26.4	5.5	20.9
UPPER MANNVILLE WW	50.4	0.10		5.0		5.0	2.2	2.8
UPPER MANNVILLE YY	640.0	0.05		32.0		32.0	7.2	24.8
UPPER MANN Q.Y & FF	249.0	0.10		24.9		24.9	15.0	9.9
UPPER MANN C.U,ZZZ & LOWER MANN A & H	564.0	0.06		33.8		33.8	30.0	3.8
UPPER MANNVILLE EEE	203.0	0.10		20.3		20.3	11.6	8.7
UPPER MANNVILLE FFF	163.0	<0.03		3.7		3.7	3.7	
UPPER MANNVILLE HHH	64.6	<0.01		0.5		0.5	0.5	
UPPER MANNVILLE KKK	200.0	<0.01		1.9		1.9	1.9	
UPPER MANNVILLE LLL	1 190.0	0.10		119.0		119.0	44.6	74.4
UPPER MANNVILLE QQQ	136.0	0.10		13.6		13.6	1.2	12.4
UPPER MANNVILLE E2E	129.0	0.10		12.9		12.9	1.7	11.2

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.23	0.069	0.30	0.64	181	863	81	24 063	2 609.5	1984	89 12 - SUSP 87 02
64	22.10	0.110	0.20	0.71	126	807	79		2 467.6	1985	89 12
65	2.74	0.110	0.15	0.50	301	829	64	23 080	2 512.5	1974	75 11 - ABAND 75 06
64	1.85	0.080	0.20	0.50	301	825	64	28 440	2 464.3	1975	76 02 - GPP
64	2.16	0.090	0.16	0.80	106	839	71	28 820	2 442.0	1977	84 07 - ABAND 83 12
64	10.00	0.120	0.30	0.75	96	845	86	25 806	2 639.0	1979	82 12 - GPP
64	6.50	0.110	0.25	0.75	110	855	63	21 495	2 553.1	1981	84 12 - ABAND 82 10
64	1.50	0.200	0.10	0.75	100	821	83	24 775	2 642.9	1982	87 12 - SUSP 89 06
64	1.25	0.140	0.25	0.75	120	841	64	18 824	2 440.8	1982	83 01
64	3.90	0.120	0.20	0.68	152	843	82	28 030	2 386.1	1982	83 04 - SUSP 83 11
64	3.50	0.130	0.19	0.68	152	843	82	27 038	2 596.8	1982	83 07
64	2.50	0.080	0.20	0.68	152	843	82	26 376	2 553.8	1983	84 07 - ABAND 83 11
64	3.30	0.095	0.15	0.75	152	841	82	25 911	2 716.8	1984	88 12 - SUSP 86 10
64	10.20	0.120	0.21	0.72	152	841	82	23 078	2 712.9	1984	84 12 - ABAND 88 08
64	2.80	0.100	0.25	0.78	113	871	84	15 279	2 561.5	1980	81 03
64	0.89	0.073	0.40	0.68	152	843	82	20 520	2 524.1	1975	86 07
64	0.60	0.120	0.17	0.75	191	807	88	30 920	2 361.9	1974	87 01 - GPP
64	1.00	0.120	0.17	0.75	191	807	88	27 949	2 375.7	1974	87 01 - GPP
64	1.50	0.120	0.17	0.75	191	807	88	28 045	2 388.0	1974	87 01 - ABAND 87 03
128	1.81	0.110	0.22	0.75	152	829	82	25 721	2 496.3	1974	88 06 - GPP
128	1.54	0.110	0.13	0.79	152	829	82	25 893	2 511.6	1974	88 06 - GPP
128	1.39	0.080	0.22	0.75	152	829	82	25 991	2 528.5	1974	88 06 - GPP
64	1.30	0.080	0.14	0.75	152	829	82	26 253	2 565.9	1974	87 04 - GPP
430	1.34	0.126	0.17	0.75	158	845	82	28 094	2 562.8	1981	85 07
64	4.97	0.120	0.20	0.80	152	843	82	26 195	2 582.1	1984	88 07
128	5.23	0.120	0.22	0.70	145	812	85	30 950	2 565.9	1985	87 08 - GPP
256	3.04	0.120	0.21	0.80	152	843	82	28 269	2 618.1	1982	88 08
64	1.50	0.090	0.27	0.75	92	812	79	25 524	2 461.1	1973	87 12 - GPP
64	2.40	0.110	0.18	0.75	92	812	79	25 420	2 448.8	1973	87 12 - GPP
64	1.20	0.090	0.23	0.68	152	842	36	29 382	2 511.0	1973	88 07 - GPP
64	1.80	0.100	0.24	0.68	152	842	36	26 054	2 501.2	1973	88 07 - GPP
64	2.80	0.110	0.25	0.68	152	842	36	25 801	2 470.1	1973	88 07 - GPP
64	1.50	0.080	0.30	0.68	152	843	82	29 703	2 613.3	1982	89 01
64	7.30	0.120	0.20	0.68	152	843	82	30 175	2 578.6	1975	89 06
64	5.40	0.140	0.40	0.75	98	853	70	12 352	2 602.5	1987	87 09
64	5.00	0.140	0.18	0.80	65	819	82		2 415.5	1988	89 04
64	2.00	0.072	0.15	0.67	140	845	82	19 218	2 402.0	1979	83 12 - SUSP 81 01
2 912	10.61	0.055	0.32	0.56	271	834	84	24 730	2 742.0	1965	84 12 - GPP
64	8.62	0.060	0.15	0.75	95	810	85	24 530	2 903.1	1986	87 08
64	18.10	0.069	0.15	0.56	255	805	93	19 434	3 007.0	1985	87 03
64	0.80	0.100	0.35	0.80	85	850	45	16 673	1 538.1	1983	88 12 - SUSP 84 07
64	2.40	0.120	0.35	0.72	135	901	55	16 495	1 563.4	1981	81 08 - SUSP 89 03
64	4.00	0.090	0.30	0.78	99	829	52	15 670	1 524.5	1976	83 12 - SUSP 89 12
227	3.94	0.210	0.37	0.85	67	855	58	10 420	1 481.9	1966	79 03 - SUSP 74 08
65	3.29	0.146	0.25	0.86	61	870	41	10 314	1 396.9	1966	66 05 - SUSP 66 09
64	6.40	0.140	0.40	0.81	80	876	53	10 510	1 498.4	1967	82 12 - GPP
64	2.14	0.186	0.39	0.85	55	820	66	10 000	1 372.8	1973	75 12
64	1.83	0.170	0.32	0.85	64	855	43	10 270	1 390.8	1974	79 06 - ABAND 88 06
64	3.55	0.182	0.25	0.85	58	874	58	9 277	1 488.8	1980	81 06
64	0.90	0.180	0.40	0.81	66	851	40	9 900	1 359.3	1982	84 03
192	5.65	0.110	0.33	0.80	76	862	57	10 283	1 500.5	1983	89 04 - GPP
65	3.96	0.200	0.40	0.81	80	876	53	10 410	1 507.5	1967	68 12 - GPP
257	2.79	0.180	0.48	0.84	71	865	49	10 490	1 410.9	1966	89 01 - GPP
64	3.60	0.150	0.31	0.85	58	875	58	10 312	1 502.8	1985	86 03
64	3.20	0.140	0.37	0.90	58	873	45	10 280	1 484.0	1985	89 12 - SUSP 87 06
64	1.20	0.150	0.34	0.85	50	858	62	10 348	1 546.6	1980	88 12 - SUSP 86 09
64	2.70	0.180	0.24	0.85	60	869	45	10 250	1 460.7	1985	89 12 - SUSP 87 04
256	3.46	0.200	0.21	0.85	56	873	50	9 357	1 497.6	1986	88 10
64	3.00	0.130	0.35	0.84	60	870	48	6 818	1 370.6	1985	87 03
64	2.50	0.130	0.27	0.85	56	873	50	9 784	1 497.5	1985	88 10

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
GHOST PINE 031-22W4 (CONTINUED)								
LOWER MANNVILLE B	424.0	0.08		33.9		33.9	25.2	8.7
LOWER MANNVILLE E	115.0	0.15		17.3		17.3	15.1	2.2
LOWER MANNVILLE J	159.0	0.10		15.9		15.9	8.2	7.7
LOWER MANNVILLE K	110.0	0.07		7.7		7.7	6.2	1.5
LOWER MANNVILLE L	1 067.0	0.15		160.0		160.0	98.8	61.2
LOWER MANNVILLE N	88.7	0.15		13.3		13.3	7.0	6.3
LOWER MANNVILLE Q	198.0	0.10		19.8		19.8	1.4	18.4
LOWER MANNVILLE U	32.6	0.15		4.9		4.9	0.8	4.1
LOWER MANNVILLE V	73.0	0.10		7.3		7.3	0.4	6.9
LOWER MANNVILLE AA	182.0	0.10		18.2		18.2	1.3	16.9
LOWER MANNVILLE BB	151.0	0.15		22.6		22.6	4.0	18.6
PEKISKO F	110.0	0.12		13.2		13.2	11.2	2.0
PEKISKO K	305.0	<0.02		3.5		3.5	3.5	
PEKISKO N	202.0	<0.03		4.4		4.4	4.4	
PEKISKO P	77.4	0.10		7.7		7.7	2.7	5.0
GIFT 079-11W5								
SLAVE POINT A TOTAL	8 300.0			830.0	959.0	1 789.0	492.8	1 296.2
PRIMARY AREA	4 486.0	0.10		449.0		449.0		
WATER FLOOD AREA	3 814.0	0.10	0.25	381.0	959.0	1 340.0		
SLAVE POINT C	2 220.0	0.10		222.0		222.0	45.8	176.2
SLAVE POINT D	181.0	0.05		9.1		9.1	3.4	5.7
SLAVE POINT E	469.0	0.05		23.5		23.5	5.3	18.2
SLAVE POINT G	160.0	0.05		8.0		8.0	2.2	5.8
SLAVE POINT H	118.0	0.05		5.9		5.9	2.6	3.3
SLAVE POINT I	292.0	<0.01		0.1		0.1	0.1	
SLAVE POINT J	290.0	0.15		43.5		43.5	19.4	24.1
SLAVE POINT K	202.0	0.15		30.3		30.3	14.7	15.6
GILWOOD A	134.0	<0.03		3.4		3.4	3.4	
GILWOOD D	276.0	0.15		41.4		41.4	20.0	21.4
GILWOOD E	954.0	0.25		239.0		239.0	74.4	164.6
GILWOOD G	476.0	0.25		119.0		119.0	30.5	88.5
GILWOOD H	331.0	0.25		82.8		82.8	12.7	70.1
GILWOOD I	15.8	<0.02		0.3		0.3	0.3	
GILWOOD J	918.0	0.25		230.0		230.0	76.9	153.1
GILWOOD K	193.0	0.20		38.6		38.6	20.3	18.3
GRANITE WASH A	72.7	<0.01		0.2		0.2	0.2	
GRANITE WASH B	198.0	<0.02		3.5		3.5	3.5	
GRANITE WASH C	65.0	<0.02		0.9		0.9	0.9	
GRANITE WASH D	95.4	0.20		19.1		19.1	3.4	15.7
GILBY 041-03W5								
BELLY RIVER A	286.0	0.07		20.0		20.0	18.2	1.8
BELLY RIVER B	685.0	0.10		68.5		68.5	39.5	29.0
BELLY RIVER C	485.0	<0.01		1.1		1.1	1.1	
BELLY RIVER E	214.0	0.05		10.7		10.7	2.6	8.1
CARDIUM A	170.0	0.12		20.4		20.4	16.9	3.5
CARDIUM D	84.5	0.10		8.5		8.5	0.5	8.0
CARDIUM E	179.0	0.10		17.9		17.9	9.9	8.0
VIKING A TOTAL	6 830.0			1 331.0	1 285.0	2 616.0	2 541.5	74.5
PRIMARY AREA	710.0	0.15		107.0		107.0		
WATER FLOOD AREA	6 120.0	0.20	0.21	1 224.0	1 285.0	2 509.0		
VIKING B TOTAL	1 543.0			429.0	184.0	613.0	558.0	55.0
PRIMARY AREA	133.0	0.15		20.0		20.0		
WATER FLOOD AREA	1 410.0	0.29	0.13	409.0	184.0	593.0		
VIKING C	229.0	0.20		46.1		46.1	33.9	12.2
VIKING F	100.0	0.15		15.0		15.0	10.4	4.6
VIKING G	61.2	<0.02		0.9		0.9	0.9	
VIKING H	19.8	0.02		0.4		0.4	0.4	
VIKING J	74.5	<0.01		0.2		0.2	0.2	
VIKING K	36.1	0.10		3.6		3.6	2.4	1.2
VIKING L	32.1	0.10		3.2		3.2	0.8	2.4
BASAL MANNVILLE B TOTAL	7 000.0			868.0	805.0	1 670.0	1 016.7	653.3
PRIMARY AREA	1 250.0	0.05		62.5		62.5		
WATER FLOOD AREA	5 750.0	0.14	0.14	805.0	805.0	1 610.0		
BASAL MANNVILLE F	28.0	<0.03		0.7		0.7	0.7	
BASAL MANNVILLE G	76.3	<0.01		0.2		0.2	0.2	
BASAL MANNVILLE Q	103.0	<0.01		0.5		0.5	0.5	
BASAL MANNVILLE R	1 700.0	0.10		170.0		170.0	64.9	105.1
BASAL MANNVILLE S	493.0	0.07		34.5		34.5	23.2	11.3

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	5.86	0.190	0.30	0.85	58	892	48	10 670	1 443.5	1959	86 12 - GPP
65	1.52	0.180	0.25	0.86	51	892	49	10 747	1 487.4	1966	87 12 - GPP
128	1.72	0.130	0.34	0.84	62	876	56	10 980	1 572.9	1977	79 06 - GPP
64	1.98	0.150	0.32	0.85	62	881	49	11 030	1 570.3	1977	89 12 - GPP
128	6.10	0.200	0.20	0.85	70	861	60	10 250	1 491.4	1971	87 11 - GPP
64	3.30	0.100	0.50	0.84	60	861	61	10 245	1 509.2	1981	81 08 - GPP
64	3.20	0.170	0.33	0.85	56	873	50	8 341	1 502.6	1985	88 10
64	1.00	0.120	0.50	0.85	49	860	45	8 828	1 514.5	1987	88 07
64	1.60	0.120	0.30	0.85	52	869	47	9 485	1 494.9	1986	87 11
64	3.80	0.180	0.51	0.85	39	854	51	10 041	1 476.9	1988	89 01
64	2.30	0.170	0.29	0.85	39	854	53		1 476.8	1988	89 01
32	12.19	0.054	0.40	0.86	62	870	54	10 026	1 421.3	1965	88 12 - GPP
64	17.00	0.050	0.30	0.80	91	813	52	10 362	1 472.9	1979	85 12 - ABAND 87 05
64	10.50	0.050	0.30	0.86	58	86	40	10 320	1 417.1	1981	82 04 - ABAND 89 08
64	2.70	0.070	0.20	0.80	79	877	55	10 909	1 645.6	1981	84 02
1 762					16	830	64	16 663	1 771.8	1983	87 12
1 066	7.94	0.086	0.33	0.92							
696	10.34	0.086	0.33	0.92							
640	7.28	0.084	0.37	0.90	30	851	54	17 297	1 794.5	1980	88 08
64	5.76	0.091	0.40	0.90	15	854	65	3 944	1 825.5	1984	87 12
64	12.60	0.095	0.32	0.90	28	850	56	16 913	1 796.5	1984	87 12
64	6.70	0.080	0.50	0.93	15	835	65	15 745	1 799.0	1985	87 12
64	4.10	0.079	0.37	0.90	30	850	54	17 083	1 784.0	1985	87 12
64	11.40	0.100	0.55	0.89	34	838	50	17 881	1 865.8	1985	88 12 - SUSP 86 01
64	9.00	0.080	0.30	0.90	29	843	64	17 543	1 815.2	1981	82 04
64	7.70	0.080	0.43	0.90	30	865	54	4 600	1 826.4	1982	83 04
128	1.76	0.110	0.35	0.83	58	841	60	18 213	1 822.3	1980	85 02 - SUSP 85 08
64	3.80	0.180	0.30	0.90	26	841	65	17 560	1 803.1	1983	84 04
256	3.72	0.170	0.29	0.83	56	847	71	18 648	1 809.1	1984	85 02
64	6.40	0.200	0.30	0.83	62	847	57	18 590	1 794.3	1984	85 02
249	1.23	0.170	0.27	0.87	43	847	56	18 101	1 845.0	1984	89 11
64	0.50	0.080	0.29	0.87	43	847	54	16 447	1 830.5	1984	88 12 - SUSP 86 03
256	4.00	0.144	0.30	0.89	31	836	59	18 632	1 876.4	1984	87 12
64	3.50	0.150	0.30	0.82	64	850	63	18 674	1 908.3	1984	84 03
64	1.50	0.150	0.42	0.87	43	854	55	19 017	1 836.7	1984	84 11 - ABAND 84 11
64	3.30	0.200	0.46	0.87	42	835	56	18 383	1 876.7	1984	88 12 - SUSP 86 11
64	1.20	0.130	0.25	0.87	42	835	56	19 055	1 826.6	1984	88 12 - SUSP 86 03
64	1.70	0.180	0.44	0.87	39	845	65	17 263	1 838.2	1984	86 02
129	3.57	0.183	0.60	0.85	57	820	38	7 170	1 282.9	1963	75 12 - GPP
192	4.27	0.150	0.36	0.87	51	820	46	7 240	1 393.9	1965	89 01 - GPP
64	6.40	0.200	0.32	0.87	68	820	33	8 200	1 299.3	1979	81 12 - ABAND 85 01
64	4.96	0.136	0.43	0.87	58	836	29	9 472	1 307.5	1979	89 12
170	1.83	0.090	0.20	0.76	106	811	63	17 790	1 671.8	1962	87 12 - GPP
64	1.50	0.150	0.15	0.69	140	835	62	18 980	1 847.8	1984	85 08
128	1.72	0.130	0.23	0.81	85	838	55	17 212	1 769.9	1985	88 06
6 566					55	834	62	9 960	1 784.9	1953	88 12 - GPP
960	1.49	0.092	0.35	0.83							
5 606	1.86	0.104	0.32	0.83							
2 451					92	839	68	17 930	1 951.0	1962	88 12 - GPP
181	2.00	0.070	0.32	0.77							
2 270	1.62	0.073	0.32	0.77							
255	1.16	0.140	0.29	0.78	92	839	66	17 440	1 911.1	1956	74 12 - GPP
128	1.35	0.110	0.30	0.75	110	849	66	10 940	1 973.9	1974	88 12 - GPP
65	1.22	0.140	0.29	0.78	92	849	62	12 510	1 908.0	1976	83 12 - SUSP 81 03
64	2.50	0.030	0.45	0.75	100	818	83	12 600	1 917.6	1980	82 07 - ABAND 87 06
64	1.80	0.110	0.30	0.84	58	834	63	11 770	1 831.1	1985	89 12 - SUSP 86 12
64	1.37	0.066	0.20	0.78	90	837	72	9 943	2 044.9	1985	87 05 - GPP
64	0.80	0.105	0.35	0.92	49	850	60	8 341	1 671.6	1985	87 08 - SUSP 88 10
996					71	892	69	15 860	2 145.0	1957	84 12 - GPP
288	6.02	0.120	0.23	0.78							
708	9.40	0.142	0.22	0.78							
41	0.91	0.150	0.30	0.72	71	892	68	15 580	2 144.0	1966	88 12 - SUSP 88 12
65	2.13	0.100	0.30	0.79	91	892	53	15 240	2 033.6	1966	68 02 - SUSP 67 06
64	1.83	0.140	0.20	0.78	99	904	52	14 749	1 887.0	1974	75 12 - ABAND 76 06
128	13.84	0.136	0.15	0.83	66	887	60	14 370	2 135.6	1976	85 07
128	5.20	0.130	0.27	0.78	98	829	56	15 440	1 894.3	1971	81 12 - GPP

TABLE 2-4

FIELD POOL	1	3		5			6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES	
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL			
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	
GILBY 041-03W5 (CONTINUED)									
BASAL MANNVILLE U	117.0	<0.01		0.2		0.2	0.2		
BASAL MANNVILLE X	376.0	<0.01		1.7		1.7	1.7		
BASAL MANNVILLE Y	93.6	<0.01		0.1		0.1		0.1	
BASAL MANNVILLE AA	93.0	0.10		9.3		9.3	1.9	7.4	
BASAL MANNVILLE BB	133.0	0.15		20.0		20.0	6.5	13.5	
BASAL MANNVILLE DD	105.0	0.10		10.5		10.5	3.4	7.1	
BASAL MANNVILLE GG	209.0	0.10		20.9		20.9	0.1	20.8	
BASAL MANNVILLE HH	126.0	0.05		6.3		6.3	0.5	5.8	
BASAL MANNVILLE H&L	1 290.0	0.05		64.5		64.5	57.0	7.5	
JUR E & UP MANN A									
JURASSIC B TOTAL	12 300.0			1 480.0	2 190.0	3 680.0	2 747.1	932.9	
PRIMARY AREA	138.0	0.10		13.8		13.8			
WATER FLOOD AREA	12 200.0	<0.13	0.18	1 470.0	2 190.0	3 670.0			
JURASSIC F	1 760.0	0.15	0.25	264.0	442.0	706.0	412.8	293.2	
WATER FLOOD									
JURASSIC I	610.0	0.10		61.0		61.0	33.2	27.8	
JURASSIC J	443.0	0.10		44.3		44.3	38.9	5.4	
JURASSIC L	1 150.0	0.10		115.0		115.0	21.9	93.1	
RUNDLE B	175.0	<0.02		2.0		2.0	2.0		
RUNDLE E	140.0	<0.07		8.7		8.7	8.7		
RUNDLE F	447.0	<0.01		0.1		0.1	0.1		
RUNDLE L	300.0	<0.02		5.4		5.4	5.4		
RUNDLE M	139.0	<0.01		0.1		0.1	0.1		
RUNDLE N	67.4	<0.01		0.1		0.1	0.1		
RUNDLE O	311.0	0.05		15.6		15.6	7.6	8.0	
BANFF A	188.0	<0.01		0.1		0.1	0.1		
NISKU A	121.0	<0.02		1.3		1.3	1.3		
NISKU B	401.0	0.10		40.1		40.1	2.7	37.4	
NISKU C	272.0	0.25		68.0		68.0	9.5	58.5	
D-3 A	169.0	<0.01		1.5		1.5	1.5		
GILWOOD 073-18W5									
GILWOOD A	442.0	0.30		133.0		133.0	104.6	28.4	
GILWOOD B	144.0	0.10		14.4		14.4	13.0	1.4	
GILWOOD C	217.0	0.25		54.2		54.2	5.1	49.1	
GILWOOD D	110.0	0.20		22.0		22.0	1.3	20.7	
GILWOOD E	254.0	0.20		50.8		50.8	9.2	41.6	
GILWOOD G	73.8	0.02		1.5		1.5	1.0	0.5	
GIROUX LAKE 066-21W5									
VIKING A TOTAL	843.0			155.0	121.0	276.0	217.1	58.9	
PRIMARY AREA	207.0	0.20		41.4		41.4			
WATER FLOOD AREA	636.0	0.18	0.19	114.0	121.0	235.0			
VIKING D	270.0	0.10		27.0		27.0	11.1	15.9	
GETHING A	140.0	<0.01		1.3		1.3	1.3		
CADOMIN A	113.0	<0.04		4.1		4.1	4.1		
GIROUXVILLE EAST 076-22W5									
DEBOLT B	225.0	0.10		22.5		22.5	9.4	13.1	
GILWOOD A	223.0	0.25		55.8		55.8	5.3	50.5	
GILWOOD B	200.0	0.30		60.0		60.0	8.6	51.4	
GRANITE WASH A	198.0	0.30		59.4		59.4	21.1	38.3	
GLACIER 076-11W6									
DOE CREEK A	235.0	0.05		11.8		11.8	3.7	8.1	
BOUNDARY A	319.0	0.10		31.9		31.9	9.5	22.4	
GLADYS 020-27W4									
UPPER MANNVILLE A	92.2	<0.02		1.1		1.1	1.1		
LOWER MANNVILLE A	2 710.0	0.03		81.3		81.3	48.0	33.3	
LOWER MANNVILLE B&C	77.6	<0.01		0.4		0.4	0.4		
DETITAL A	138.0	<0.02		2.3		2.3	2.3		
RUNDLE C	1 700.0	0.10		170.0		170.0	86.9	83.1	
RUNDLE E	419.0	<0.01		0.2		0.2	0.2		
GLEICHEN 022-21W4									
UPPER MANNVILLE A	47.2	<0.03		1.1		1.1	1.1		
UPPER MANNVILLE B	44.1	0.04		1.8		1.8	1.8		

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	4.00	0.090	0.35	0.78	103	904	67	15 462	2 208.5	1979	80 07 - ABAND 83 05
64	9.50	0.110	0.28	0.78	180	889	52	16 982	2 192.3	1979	79 08 - SUSP 84 06
64	2.10	0.130	0.33	0.80	87	890	79	18 505	2 126.4	1981	84 01 - ABAND 84 05
64	1.90	0.140	0.30	0.78	95	898	59	18 132	2 089.0	1986	86 12 - GPP
64	2.35	0.135	0.16	0.78	87	890	76	18 396	2 094.1	1979	86 12 - GPP
64	2.80	0.100	0.23	0.76	100	859	67	14 182	1 990.4	1971	88 01 - GPP
64	4.29	0.138	0.20	0.69	135	812	66	14 661	2 123.7	1987	88 07
32	6.00	0.120	0.31	0.79	91	890	68	15 635	1 914.0	1988	89 12
192	7.70	0.140	0.22	0.80	86	892	71	16 220	2 137.0	1972	84 12 - GPP
1 893					86	887	71	16 000	2 149.1	1958	86 05
64	3.06	0.110	0.20	0.80							
1 829	6.40	0.167	0.22	0.80							- GPP
404	4.97	0.146	0.25	0.80	90	887	66	15 960	2 165.3	1961	68 05 - GPP
64	7.10	0.210	0.20	0.80	76	892	70	13 750	2 155.2	1973	88 09
65	7.62	0.150	0.25	0.80	80	887	71	12 960	2 165.0	1974	74 12
192	4.79	0.230	0.32	0.80	83	896	70	11 618	2 153.8	1982	86 04 - GPP
101	4.79	0.062	0.28	0.81	86	898	71	15 860	2 148.2	1958	64 04 - SUSP 66 10
32	6.83	0.100	0.22	0.81	73	898	71	16 130	2 178.1	1962	63 10 - SUSP 64 07
65	19.42	0.061	0.28	0.81	73	898	79	14 200	2 163.2	1965	67 05 - ABAND 66 11
65	7.62	0.100	0.25	0.81	71	898	73	16 170	2 154.6	1974	88 12 - SUSP 86 02
64	4.80	0.068	0.20	0.81	74	881	62	15 420	2 027.5	1976	82 12 - ABAND 83 01
64	2.50	0.080	0.35	0.81	74	881	66	15 981	2 275.8	1979	88 12 - SUSP 80 02
64	8.00	0.100	0.25	0.81	116	887	54	21 112	2 257.5	1979	83 12 - GPP
64	5.00	0.120	0.30	0.70	150	753	57	15 032	2 075.0	1984	85 07
64	9.00	0.050	0.40	0.70	177	817	51	18 540	2 478.5	1979	83 12 - ABAND 84 07
64	20.00	0.053	0.18	0.72	120	830	82	18 108	2 394.5	1984	86 01 - SUSP 88 12
64	15.40	0.050	0.20	0.69	125	815	80	18 715	2 383.7	1988	88 06
64	7.50	0.070	0.25	0.67	59	806	83	11 131	2 475.5	1984	88 12 - SUSP 86 04
243	2.13	0.150	0.36	0.89	36	834	86	25 860	2 472.5	1954	86 12 - GPP
32	6.00	0.140	0.40	0.89	36	838	86	25 714	2 524.6	1984	89 12
64	4.70	0.133	0.39	0.89	36	834	86	26 199	2 567.7	1987	87 09
64	3.03	0.107	0.39	0.87	38	840	64	25 186	2 558.3	1985	85 10 - SUSP 88 11
128	2.62	0.147	0.42	0.89	36	935	86	25 335	2 426.6	1987	89 03
64	1.80	0.144	0.50	0.89	36	835	86		2 442.1	1988	89 10
646					71	834	56	11 620	1 376.5	1964	88 12 - GPP
256	1.23	0.140	0.44	0.84							
390	2.01	0.138	0.30	0.84							
192	1.33	0.200	0.37	0.84	71	834	56	11 137	1 329.5	1985	88 06
64	2.50	0.130	0.25	0.90	29	927	59	15 555	1 691.3	1979	79 11 - SUSP 85 06
64	1.84	0.160	0.32	0.88	50	922	71	15 850	1 745.5	1978	88 12 - SUSP 85 07
64	3.80	0.160	0.35	0.89	38	826	41	9 212	1 118.9	1982	86 02 - SUSP 89 06
64	3.59	0.158	0.31	0.89	42	831	66	26 631	2 444.8	1987	88 07
64	4.30	0.132	0.36	0.86	40	827	78	27 009	2 452.0	1988	89 08
64	3.80	0.180	0.48	0.87	36	820	76	26 620	2 445.4	1985	86 01
64	3.80	0.200	0.45	0.88	47	840	33	4 142	672.2	1985	86 02
128	2.40	0.200	0.35	0.80	110	834	75	17 561	1 971.6	1984	89 11
64	2.00	0.120	0.25	0.80	80	852	48	17 226	2 021.5	1979	82 08 - SUSP 84 04
192	22.39	0.120	0.30	0.75	112	849	54	16 805	2 056.9	1978	83 12 - GPP
64	2.10	0.110	0.30	0.75	112	830	54	16 468	2 054.1	1978	82 12 - SUSP 82 07
64	4.00	0.120	0.40	0.75	112	840	54	16 850	2 062.4	1978	84 12 - SUSP 84 08
320	13.00	0.080	0.30	0.73	102	849	56	19 163	2 070.1	1977	80 05
64	12.80	0.120	0.40	0.71	140	820	64	16 165	1 988.5	1978	82 12 - ABAND 83 09
64	1.30	0.140	0.50	0.81	82	841	43	10 869	1 462.0	1980	84 12 - ABAND 83 11
64	1.70	0.100	0.50	0.81	72	838	43	10 771	1 396.4	1979	89 12 - SUSP 87 02

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
GLEN PARK 049-27W4								
GLAUCONITIC A	194.0	<0.18		34.5		34.5	34.5	
GLAUCONITIC B	333.0	0.15		50.0		50.0	40.5	9.5
D-2 A	304.0	0.07		21.3		21.3	21.3	
D-3 A	4 660.0	0.72		3 350.0		3 350.0	3 157.5	192.5
D-3 B	140.0	0.40		56.0		56.0	12.2	43.8
GOLD CREEK 068-06W6								
CHARLIE LAKE B	271.0	<0.01		1.1		1.1	1.1	
CHARLIE LAKE C	84.9	0.10		8.5		8.5	7.0	1.5
CHARLIE LAKE D	182.0	0.10		18.2		18.2	2.5	15.7
DOIG A	77.0	0.15		11.6		11.6	0.9	10.7
DOIG B	276.0	<0.01		0.1		0.1	0.1	
DOIG C	312.0	<0.01		0.1		0.1	0.1	
GOLDEN 087-14W5								
SLAVE POINT A	5 600.0	0.45		2 520.0		2 520.0	2 117.9	402.1
SLAVE POINT B	352.0	0.10		35.2		35.2	7.3	27.9
GOLDEN SPIKE 051-27W4								
UPPER MANNVILLE A	47.9	<0.01		0.3		0.3	0.3	
UPPER MANNVILLE C	228.0	0.10		22.8		22.8	6.6	16.2
UPPER MANNVILLE D	189.0	0.05		9.5		9.5	5.2	4.3
D-2 A WATER FLOOD	2 180.0	0.11	0.07	240.0	152.0	392.0	366.4	25.6
D-2 B	356.0	0.15		53.4		53.4	50.0	3.4
D-3 A TOTAL	50 180.0			26 590.0	3 650.0	30 280.0	28 149.6	2 130.4
PRIMARY AREA	575.0	0.50		288.0		288.0		
SOLVENT FLOOD AREA	0.0			0.0	1 590.0	1 590.0		
GAS FLOOD AREA	49 600.0	0.53	0.05	26 300.0	2 070.0	28 400.0		
D-3 B	683.0	0.40		273.0		273.0	240.7	32.3
D-3 C	425.0	0.45		191.0		191.0	180.3	10.7
GOODWIN 059-13W5								
BASAL QUARTZ A	189.0	0.10		18.9		18.9	9.0	9.9
GOOSE RIVER 067-18W5								
D-2 A	297.0	<0.01		0.9		0.9	0.9	
BEAVERHILL LAKE A	21 040.0			3 408.0	5 424.0	8 832.0	6 430.7	2 401.3
TOTAL								
PRIMARY AREA	237.0	<0.01		1.6		1.6		
SOLVENT FLOOD AREA	10 000.0	0.16	0.29	1 600.0	2 940.0	4 540.0		
WATER FLOOD AREA	10 800.0	0.16	0.23	1 806.0	2 484.0	4 290.0		
BEAVERHILL LAKE B	167.0	0.10		16.7		16.7	13.8	2.9
GORDONDALE 079-10W6								
CHARLIE LAKE A	123.0	0.10		12.3		12.3	1.1	11.2
HALFWAY A	149.0	0.05		7.5		7.5	2.9	4.6
HALFWAY B	1 230.0	0.10		123.0		123.0	24.9	98.1
HALFWAY C	2 638.0	0.10		264.0		264.0	29.3	234.7
HALFWAY F	38.2	0.15		5.7		5.7	3.5	2.2
HALFWAY I	361.0	0.15		54.2		54.2	14.1	40.1
HALFWAY K	1 212.0	0.10		121.0		121.0	63.0	58.0
HALFWAY M	437.0	0.15		65.6		65.6		65.6
GRANDE PRAIRIE 073-06W6								
CHARLIE LAKE B	122.0	0.15		18.3		18.3	10.9	7.4
CHARLIE LAKE C	74.0	0.10		7.4		7.4	3.7	3.7
CHARLIE LAKE D	185.0	<0.01		1.3		1.3	1.3	
CHARLIE LAKE E	54.2	0.20		10.8		10.8	8.9	1.9
HALFWAY A TOTAL	3 960.0			555.0	195.0	750.0	234.1	515.9
PRIMARY AREA	280.0	0.05		14.8		14.8		
GAS FLOOD AREA	3 680.0	0.14	0.05	540.0	195.0	735.0		
HALFWAY F	11.4	0.10		1.1		1.1	0.3	0.8
HALFWAY H	130.0	<0.02		1.7		1.7	1.7	
HALFWAY I	128.0	0.10		12.8		12.8	0.5	12.3
HALFWAY J	66.3	0.10		6.6		6.6	0.4	6.2
HALFWAY K	144.0	0.10		14.4		14.4	4.0	10.4
HALFWAY L	37.5	0.15		5.6		5.6	0.3	5.3
HALFWAY M	201.0	0.10		20.1		20.1	0.4	19.7
HALFWAY N	169.0	0.10		16.9		16.9		16.9

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
77	2.74	0.149	0.26	0.83	60	881	59	13 240	1 408.5	1953	61 09 - ABAND 71 05
82	3.64	0.170	0.20	0.82	44	881	60	7 170	1 428.9	1965	84 12 - GPP
239	4.63	0.047	0.20	0.73	113	820	67	13 240	1 691.3	1952	64 04 - SUSP 69 12
173	39.32	0.097	0.07	0.76	106	834	74	15 200	1 921.8	1951	73 05 - GPP
64	4.00	0.090	0.20	0.76	99	836	74	13 391	1 912.0	1983	84 05 - SUSP 89 10
64	2.80	0.210	0.10	0.80	100	815	75	19 302	2 103.4	1983	85 09 - SUSP 85 09
64	3.00	0.080	0.30	0.79	100	795	75	19 510	2 185.5	1984	84 07
64	3.89	0.125	0.27	0.80	100	827	74	20 425	2 143.0	1985	86 09
64	1.80	0.110	0.24	0.80	78	820	74	20 988	2 155.9	1985	86 03
64	10.30	0.083	0.37	0.80	68	856	75	18 846	2 190.7	1985	89 12 - SUSP 86 06
64	7.80	0.120	0.35	0.80	68	824	74	19 328	2 136.1	1984	85 08 - SUSP 85 11
1 344	7.50	0.086	0.29	0.91	32	829	38	16 660	1 599.3	1971	88 01 - GPP
64	8.50	0.090	0.21	0.91	30	829	38	15 646	1 581.3	1983	88 01
16	3.60	0.160	0.35	0.80	60	905	50	11 265	1 269.5	1976	84 03 - SUSP 84 09
64	6.50	0.120	0.45	0.83	58	881	45	11 841	1 300.8	1983	89 05
64	3.70	0.148	0.35	0.83	82	882	57	11 912	1 326.7	1985	89 05
609	9.85	0.057	0.15	0.75	87	839	61	12 270	1 542.9	1952	82 12 - GPP
173	3.93	0.078	0.14	0.78	87	839	61	12 410	1 556.9	1951	73 12 - GPP
590					70	839	60	14 450	1 775.9	1949	88 11 - GPP
24	38.71	0.087	0.11	0.80							- SOLVENT FLOOD TERMINATED 76 02
590	135.64	0.087	0.11	0.80							
231	6.10	0.068	0.12	0.81	73	839	77	14 340	1 810.2	1950	86 12
158	5.82	0.068	0.15	0.80	73	839	67	14 480	1 827.0	1951	85 12 - GPP
64	5.26	0.120	0.40	0.78	90	860	61	13 800	1 650.0	1973	85 11
65	9.14	0.080	0.15	0.74	113	825	114	28 460	2 372.6	1965	71 05 - ABAND 69 08
3 568					99	820	110	29 300	2 810.3	1963	87 03 - GPP
65	7.35	0.082	0.19	0.75							
1 152	17.66	0.082	0.19	0.74							
2 351	9.35	0.082	0.19	0.74							
130	3.66	0.060	0.24	0.77	99	820	104	36 200	2 857.2	1965	67 02 - GPP
64	5.10	0.090	0.44	0.75	123	824	58	14 906	1 720.6	1988	88 10
65	4.88	0.090	0.27	0.72	129	815	67	16 880	1 747.1	1976	83 01
437	5.19	0.103	0.35	0.81	76	830	66	17 046	1 830.6	1980	88 09
1 190	3.91	0.100	0.30	0.81	76	832	66	16 685	1 875.9	1980	88 07
64	2.15	0.065	0.39	0.70	130	814	60	10 896	1 638.3	1985	88 12
128	4.09	0.150	0.37	0.73	175	806	60	15 709	1 739.2	1986	89 08
1 265	1.80	0.096	0.23	0.72	112	814	70		1 592.1	1987	88 09
128	3.26	0.175	0.17	0.72	141	805	70		1 644.7	1988	89 12
99	1.70	0.120	0.10	0.67	144	835	58	19 119	1 921.5	1984	88 12
64	2.10	0.106	0.20	0.65	168	827	64	8 346	1 925.5	1979	80 01
64	3.90	0.120	0.12	0.70	140	823	68	8 166	1 947.7	1985	89 12 - SUSP 87 07
64	1.30	0.100	0.07	0.70	122	840	72	19 686	1 957.7	1983	88 12 - GPP
1 105					129	798	73	16 788	1 905.6	1982	89 11
230	3.01	0.077	0.26	0.71							
875	7.00	0.102	0.17	0.71							
64	1.00	0.050	0.50	0.71	129	797	73	15 099	1 901.9	1983	84 01
64	3.81	0.107	0.30	0.71	129	825	73	15 866	1 921.4	1984	89 12 - SUSP 86 02
64	2.70	0.120	0.13	0.71	129	797	73	16 905	1 922.8	1985	88 07 - SUSP 88 07
64	2.00	0.090	0.19	0.71	129	807	73	17 461	1 962.0	1985	85 10
64	4.51	0.110	0.36	0.71	129	797	73	16 356	1 898.8	1984	85 08
64	2.00	0.055	0.18	0.65	160	826	65	17 676	1 988.3	1985	86 01
64	5.74	0.100	0.23	0.71	129	798	73	15 656	1 876.9	1988	88 12
64	3.67	0.119	0.15	0.71	129	798	73		1 861.3	1988	89 05

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE 10 ³ m ³	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION 10 ³ m ³	REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY frac	ENHANCED frac	PRIMARY 10 ³ m ³	ENHANCED 10 ³ m ³	TOTAL 10 ³ m ³		
GROAT 057-15W5 CARDIUM A	188.0	0.10		18.8		18.8	0.1	18.7
GROUARD 075-15W5 GILWOOD A	93.5	0.25		23.4		23.4	6.1	17.3
GUNN 056-03W5 LOWER MANNVILLE A	158.0	<0.01		1.4		1.4	1.4	
HACKETT 036-18W4 UPPER MANNVILLE A UPPER MANNVILLE D	1 150.0 238.0	0.09 <0.01		103.0 0.1	ERSO	103.0 0.1	78.0 0.1	25.0
HALKIRK 038-16W4 UPPER MANNVILLE B UPPER MANNVILLE D UPPER MANNVILLE E UPPER MANNVILLE G UPPER MANNVILLE I TOTAL	82.7 2 000.0 202.0 140.0 5 742.0	<0.01 0.17 0.10 <0.01		0.2 340.0 20.2 0.2 950.0		0.2 340.0 20.2 0.2 2 283.0	0.2 86.2 4.2 0.2 653.4	253.8 16.0 1 629.6
PRIMARY AREA WATER FLOOD AREA	59.0 5 683.0	0.17 <0.17	0.23	10.0 940.0		10.0 2 273.0		
UPPER MANNVILLE J UPPER MANNVILLE K LOWER MANNVILLE F LOWER MANNVILLE G LOWER MANNVILLE J LOWER MANNVILLE L LOWER MANNVILLE M LOWER MANNVILLE N LOWER MANNVILLE O LOWER MANNVILLE P	960.0 323.0 1 160.0 32.0 300.0 108.0 115.0 32.0 43.4 137.0	0.10 0.10 0.10 0.10 0.20 0.10 0.10 <0.01 0.10 0.15		96.0 32.3 116.0 3.2 60.0 10.8 11.5 0.1 4.3 20.6	1 333.0	96.0 32.3 116.0 3.2 60.0 10.8 11.5 0.1 4.3 20.6	17.6 12.5 57.7 1.6 31.8 4.7 2.3 0.1 0.7	78.4 19.8 58.3 1.6 28.2 6.1 9.2 0.1 3.6
CAMROSE A CAMROSE B CAMROSE C CAMROSE D	203.0 152.0 100.0 85.2	<0.02 0.15 0.25 <0.01		3.2 22.8 25.0 0.4		3.2 22.8 25.0 0.4	3.2 11.1 8.5 0.4	17.9 11.7 16.5
HALKIRK EAST 040-13W4 VIKING A VIKING B VIKING C VIKING D VIKING E VIKING F VIKING G GLAUCONITIC A GLAUCONITIC B GLAUCONITIC C GLAUCONITIC D	273.0 231.0 52.9 877.0 91.2 86.4 49.1 743.0 206.0 232.0 332.0	0.10 0.10 <0.01 0.02 0.10 <0.01 <0.01 <0.01 0.02 0.10 0.10		27.3 23.1 0.2 17.5 9.1 0.1 0.3 1.8 4.1 23.2 33.2		27.3 23.1 0.2 17.5 9.1 0.1 0.3 1.8 4.1 23.2 33.2	10.0 10.9 0.2 7.0 3.7 0.1 0.3 1.8 0.3 1.8 1.9	17.3 12.2 10.5 5.4 11.8 3.8
ELLERSLIE A ELLERSLIE B ELLERSLIE C ELLERSLIE D ELLERSLIE E ELLERSLIE F ELLERSLIE G ELLERSLIE H ELLERSLIE I ELLERSLIE J ELLERSLIE K ELLERSLIE L	1 250.0 550.0 279.0 124.0 1 025.0 947.0 101.0 52.0 410.0 100.0 3.3 100.0	0.30 0.40 0.10 0.10 0.40 0.40 0.20 0.25 0.40 0.30 0.02 0.40		375.0 220.0 27.9 12.4 410.0 379.0 20.2 13.0 164.0 30.0 0.1 40.0		375.0 220.0 27.9 12.4 410.0 379.0 20.2 13.0 164.0 30.0 0.1 40.0	110.8 131.5 0.8 0.6 103.3 97.3 10.4 8.8 83.5 17.5 9.2	264.2 88.5 27.1 11.8 306.7 281.7 9.8 4.2 80.5 12.5 0.1 30.8
HAMELIN CREEK 080-06W6 TRIASSIC A TRIASSIC B	728.0 173.0	0.25 0.10		182.0 17.3		182.0 17.3	62.1 2.2	119.9 15.1
HANNA 031-14W4 UPPER MANNVILLE B LOWER MANNVILLE A	105.0 297.0	0.10 <0.01		10.5 0.3		10.5 0.3	3.3 0.3	7.2

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	6.00	0.100	0.30	0.70	140	760	45	10 184	1 687.0	1984	85 03
64	1.36	0.170	0.29	0.89	36	835	86	23 054	2 138.3	1988	88 12
64	3.10	0.190	0.40	0.70	112	827	60	10 344	1 348.2	1978	84 01 - ABAND 86 10
425	3.89	0.180	0.54	0.84	44	871	39	8 170	1 177.2	1974	86 02 - GPP
64	3.00	0.220	0.33	0.84	54	871	40	8 680	1 236.9	1984	85 07 - ABAND 86 12
64	1.23	0.200	0.30	0.75	51	874	35	9 705	1 183.5	1977	82 12 - ABAND 84 11
159	7.77	0.250	0.21	0.82	64	856	45	8 852	1 194.4	1984	89 12
64	3.80	0.167	0.38	0.80	55	873	38	8 098	1 187.7	1984	85 10 - GPP
64	2.90	0.190	0.47	0.75	110	870	30	8 172	1 185.5	1984	85 10 - ABAND 86 10
691					66	868	37	9 359	1 241.6	1985	89 12
32	1.40	0.220	0.27	0.82							
659	6.58	0.222	0.28	0.82							
205	3.80	0.220	0.30	0.80	64	868	48	9 318	1 205.6	1985	87 08
64	4.50	0.200	0.30	0.80	61	867	35	9 371	1 231.5	1986	86 08
448	3.39	0.180	0.47	0.80	98	843	37	8 910	1 201.5	1978	84 05 - GPP
64	0.92	0.160	0.60	0.85	64	852	48	8 704	1 180.1	1978	88 07
191	1.29	0.220	0.31	0.80	74	867	37	8 856	1 247.1	1986	88 12
64	2.20	0.160	0.40	0.80	66	868	36	8 963	1 228.8	1986	87 01
64	2.00	0.160	0.30	0.80	74	867	37	9 092	1 225.1	1986	87 02
32	1.40	0.140	0.40	0.85	64	867	48	9 028	1 251.5	1987	87 07 - SUSP 87 06
16	2.80	0.170	0.33	0.85	64	852	48	8 942	1 256.1	1987	88 08 - SUSP 88 11
64	2.00	0.180	0.30	0.85	64	854	48	9 391	1 263.5	1986	86 12
64	7.00	0.070	0.19	0.80	36	868	53	9 737	1 395.5	1984	89 12 - SUSP 87 06
32	9.10	0.075	0.13	0.80	36	878	53	10 153	1 431.1	1984	89 12
22	10.36	0.061	0.20	0.90	84	882	53	9 883	1 376.9	1983	85 10
64	3.40	0.067	0.35	0.90	36	845	42	9 572	1 369.0	1985	89 12 - SUSP 86 11
192	1.55	0.170	0.42	0.93	26	850	33	5 909	829.6	1982	82 11 - GPP
192	1.42	0.160	0.43	0.93	27	850	33	6 532	836.8	1982	86 11 - GPP
64	0.90	0.170	0.40	0.90	37	854	33	5 757	828.5	1982	82 11 - SUSP 83 12
192	3.70	0.214	0.38	0.93	26	851	34	5 978	829.0	1973	85 12 - GPP
64	2.00	0.150	0.50	0.95	24	858	33	5 497	834.5	1982	83 05 - GPP
64	2.00	0.150	0.50	0.90	37	858	33	5 880	834.2	1982	83 05 - ABAND 89 08
64	1.00	0.150	0.45	0.93	22	838	38	5 606	829.8	1984	89 12 - ABAND 89 10
128	5.76	0.160	0.30	0.90	37	880	35	7 450	1 030.9	1983	89 12 - SUSP 86 12
128	2.00	0.190	0.47	0.80	52	855	39	7 200	973.3	1984	87 02 - SUSP 88 05
64	3.00	0.200	0.33	0.90	38	875	37	7 479	969.8	1986	87 05
64	3.90	0.190	0.24	0.92	35	875	34		987.0	1988	88 12
132	5.81	0.236	0.23	0.90	42	896	32	6 958	1 002.7	1972	89 12
68	4.88	0.242	0.24	0.90	43	870	35	6 820	997.2	1983	89 12
64	2.50	0.260	0.21	0.85	66	885	31	7 215	1 046.4	1984	84 12
64	1.60	0.200	0.33	0.90	36	829	39	6 711	1 003.3	1987	87 05 - SUSP 87 11
129	5.87	0.211	0.29	0.90	36	865	39	6 612	996.3	1986	89 12
76	7.36	0.236	0.22	0.92	48	897	37	6 459	987.2	1987	89 08
16	4.85	0.210	0.27	0.85	62	885	35	6 568	985.9	1987	89 12
8	4.30	0.210	0.20	0.90	42	896	32	6 873	1 003.5	1983	89 12
27	7.74	0.256	0.15	0.90	42	896	32	6 905	995.0	1985	89 12
8	8.65	0.226	0.25	0.90	42	896	32	7 500	988.7	1984	89 12
4	0.50	0.260	0.28	0.90	42	986	32	7 420	959.4	1985	88 09
16	4.94	0.206	0.33	0.92	16	909	34	6 268	982.6	1988	89 08
192	3.02	0.190	0.25	0.88	50	835	50	11 322	1 186.0	1980	84 02
64	2.44	0.195	0.34	0.86	58	834	50	10 847	1 152.8	1988	88 12
64	2.00	0.180	0.50	0.91	37	853	31	8 008	1 136.5	1981	82 06 - GPP
65	3.05	0.250	0.30	0.86	52	865	31	9 310	1 174.4	1970	72 07 - ABAND 72 05

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
HARMATTAN EAST								
032-03W5								
CARDIUM A	159.0	<0.01		0.2		0.2	0.2	
CARDIUM B	152.0	<0.01		0.2		0.2	0.2	
CARDIUM C	25.2	0.10		2.5		2.5	1.5	1.0
CARDIUM D	258.0	0.03		7.7		7.7	3.4	4.3
CARDIUM E	74.9	0.05		3.7		3.7	1.0	2.7
VIKING C	243.0	0.10		24.3		24.3	8.1	16.2
VIKING E TOTAL	6 530.0			760.0	1 230.0	1 991.0	876.3	1 114.7
PRIMARY AREA	1 181.0	0.10		118.0		118.0		
WATER FLOOD AREA	5 349.0	0.12	0.23	641.0	1 230.0	1 872.0		
VIKING J	77.5	<0.01		0.3		0.3	0.3	
VIKING K	106.0	0.10		10.6		10.6	0.8	9.8
BLAIRMORE	288.0	<0.09		24.8		24.8	24.8	
NORDEGG A	136.0	<0.01		1.2		1.2	1.2	
RUNDLE TOTAL	32 890.0			9 847.0	2 289.0	12 140.0	10 858.9	1 281.1
PRIMARY AREA	186.0	0.20		37.2		37.2		
WATER FLOOD AREA	32 700.0	0.30	0.07	9 810.0	2 289.0	12 100.0		
RUNDLE D	308.0	0.10		30.8		30.8	8.6	22.2
HARMATTAN-ELKTON								
031-04W5								
BELLY RIVER A	137.0	<0.01		0.1		0.1		0.1
CARDIUM A	50.0	0.12		6.0		6.0	4.2	1.8
CARDIUM B	117.0	0.10		11.7		11.7	0.3	11.4
RUNDLE B	113.0	<0.08		8.9		8.9	8.9	
RUNDLE C	29 900.0	0.40		11 940.0		11 940.0	10 064.6	1 875.4
HARD 106-08W6								
KEG RIVER A	370.0	<0.01		2.0		2.0	2.0	
HAYNES 038-24W4								
D-2 A & D-3 A	1 866.0	0.20		373.0		373.0	338.1	34.9
HERCULES 051-23W4								
WABAMUN A	225.0	0.10		22.5		22.5	7.3	15.2
HIGH PRAIRIE 079-16W6								
GILWOOD A	480.0	0.25		120.0		120.0	30.9	89.1
GILWOOD B	544.0	0.30		163.0		163.0	38.9	124.1
GILWOOD C	260.0	0.30		78.0		78.0	11.3	66.7
GILWOOD D	198.0	0.20		39.6		39.6	2.0	37.6
GILWOOD E	192.0	0.25		48.0		48.0	5.6	42.4
GILWOOD F	783.0	0.25		196.0		196.0	31.8	164.2
GILWOOD G	338.0	0.25		84.5		84.5	13.4	71.1
GILWOOD H	141.0	0.20		28.2		28.2	5.0	23.2
GILWOOD I	234.0	0.20		46.8		46.8	10.2	36.6
GILWOOD J	178.0	0.15		26.7		26.7	6.4	20.3
GILWOOD M	28.4	0.05		1.4		1.4	0.6	0.8
GILWOOD N	68.3	0.05		3.4		3.4	0.2	3.2
HIGHVALE 051-04W5								
CARDIUM C	2 456.0	0.10		246.0		246.0	200.9	45.1
CARDIUM D	224.0	0.10		22.4		22.4	9.4	13.0
CARDIUM G	236.0	0.10		23.6		23.6	1.8	21.8
LOWER MANNVILLE A	5 420.0			432.0	440.0	872.0	322.3	549.7
TOTAL								
PRIMARY AREA	2 970.0	0.08		237.0		237.0		
WATER FLOOD AREA	2 450.0	0.08	0.18	195.0	440.0	635.0		
LOWER MANNVILLE B	172.0	0.10		17.2		17.2	12.0	5.2
LOWER MANNVILLE D	102.0	0.10		10.2		10.2	5.2	5.0
LOWER MANNVILLE I	131.0	<0.03		3.4		3.4	3.4	
LOWER MANNVILLE J	102.0	<0.04		3.3		3.3	3.3	
LOWER MANNVILLE P	244.0	<0.01		0.1		0.1		0.1
LOWER MANNVILLE R	590.0	0.10		59.0		59.0	24.7	34.3
LOWER MANNVILLE S	135.0	0.10		13.5		13.5	2.8	10.7
LOWER MANNVILLE T	201.0	0.05		10.1		10.1	2.1	8.0
LOWER MANNVILLE U	1 161.0	0.10		116.0		116.0	15.9	100.1
LOWER MANNVILLE V	74.1	0.10		7.4		7.4	3.2	4.2
NORDEGG E	73.7	0.10		7.4		7.4	0.3	7.1
BANFF H & NORDEGG D	7 110.0	0.10		711.0		711.0	129.4	581.6
BANFF A	2 902.0	0.08		232.0		232.0	147.8	84.2
BANFF B	287.0	0.05		14.4		14.4	7.4	7.0

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.90	0.100	0.15	0.75	35	806	64	15 292	1 938.2	1979	83 12 - ABAND 84 05
64	4.80	0.141	0.56	0.80	83	815	59	16 170	2 023.5	1979	83 12 - SUSP 81 11
64	0.90	0.080	0.30	0.78	80	851	61	16 990	2 051.9	1983	83 07
64	4.00	0.150	0.15	0.79	79	785	61	16 550	1 999.0	1981	86 12
64	2.50	0.075	0.20	0.78	80	850	61	15 580	1 978.9	1982	86 05
64	8.30	0.077	0.30	0.85	60	844	67	17 131	2 350.6	1981	82 06
4 873					58	840	56	10 225	2 189.2	1979	88 03
1 037	1.89	0.104	0.30	0.83							
3 836	2.69	0.096	0.35	0.83							
64	3.88	0.080	0.50	0.78	100	840	51	10 256	2 200.6	1982	83 05 - SUSP 84 03
64	4.99	0.078	0.39	0.70	160	790	67	10 950	2 369.8	1982	83 11
65	5.49	0.150	0.17	0.65	177	834	77	28 960	2 451.2	1961	61 09 - SUSP 73 07
64	7.70	0.075	0.45	0.67	170	820	90	24 850	2 461.6	1980	88 12 - SUSP 86 04
4 711					171	834	85	23 650	2 672.5	1954	87 03 - GPP
64	6.69	0.080	0.19	0.67							
4 647	9.02	0.137	0.15	0.67							
64	14.10	0.060	0.15	0.67	171	834	85	22 867	2 409.9	1984	84 02
64	3.19	0.123	0.40	0.91	32	839	46	6 077	1 670.3	1985	85 11 - ABAND 86 01
64	2.17	0.060	0.25	0.80	80	816	62	20 700	2 392.8	1980	88 12
64	2.50	0.100	0.15	0.86	52	833	79	27 908	2 403.3	1986	87 01
65	2.77	0.126	0.23	0.65	158	825	93	23 650	2 714.9	1962	74 02 - ABAND 71 12
4 491	9.56	0.128	0.20	0.68	172	844	94	25 100	2 782.2	1955	89 12 - GPP
64	16.90	0.060	0.08	0.62	193	807	84	17 628	2 000.3	1982	83 05 - ABAND 86 03
1 156	7.09	0.044	0.25	0.69	148	825	61	16 310	1 805.4	1968	86 11
64	7.90	0.080	0.36	0.87	52	870	47	8 913	1 256.7	1980	81 08
128	4.58	0.130	0.30	0.90	33	849	81	24 396	2 321.6	1987	88 05
64	11.17	0.144	0.40	0.88	43	840	81	24 503	2 293.5	1987	87 10
64	4.99	0.156	0.40	0.87	36	835	86	24 664	2 316.3	1987	87 12
64	3.28	0.168	0.37	0.89	36	868	86	23 944	2 241.2	1987	88 06
64	3.30	0.170	0.40	0.89	36	835	86	24 480	2 327.8	1987	88 01
192	4.62	0.146	0.32	0.89	36	835	86	24 435	2 311.2	1987	88 12
128	3.93	0.130	0.42	0.89	36	835	85	23 765	2 242.4	1987	88 05
64	2.54	0.157	0.38	0.89	36	835	75	22 483	2 259.1	1987	88 06
64	3.79	0.155	0.30	0.89	36	935	86	23 682	2 272.6	1987	88 08
64	3.94	0.139	0.43	0.89	36	935	80	24 584	2 356.9	1987	89 03
64	0.83	0.120	0.50	0.89	36	835	86		2 302.4	1988	89 10
64	2.00	0.120	0.50	0.89	36	835	86		2 320.0	1988	89 11
1 755	1.24	0.140	0.19	0.93	22	871	39	15 391	1 141.7	1980	89 11
178	1.45	0.110	0.15	0.93	22	871	39	15 392	1 139.0	1981	89 08
64	3.30	0.150	0.20	0.93	28	874	38	12 899	1 090.9	1984	84 10 - SUSP 88 03
3 106					84	870	53	17 305	1 591.0	1976	85 04
1 730	2.12	0.150	0.34	0.82							
1 376	2.19	0.150	0.34	0.82							
64	3.60	0.140	0.35	0.82	90	855	54	16 962	1 583.0	1979	87 12 - SUSP 88 10
64	1.85	0.150	0.30	0.82	86	870	56	16 168	1 586.5	1978	81 10
64	1.80	0.180	0.23	0.82	84	865	43	14 959	1 516.9	1980	89 12 - SUSP 87 02
64	2.50	0.120	0.35	0.82	68	862	50	16 484	1 625.8	1982	89 12 - SUSP 87 02
64	5.95	0.130	0.40	0.82	82	882	56	14 416	1 597.0	1983	84 10 - ABAND 85 05
192	3.02	0.170	0.27	0.82	82	882	56	15 770	1 572.0	1985	88 02
64	2.40	0.165	0.35	0.82	82	870	56	16 730	1 567.2	1977	85 12 - GPP
64	3.00	0.150	0.15	0.82	82	882	56	14 087	1 492.2	1985	87 12
192	5.29	0.170	0.18	0.82	82	850	56	15 514	1 508.0	1985	86 11
64	0.80	0.210	0.16	0.82	82	882	56	14 579	1 512.4	1983	83 12
64	3.20	0.080	0.40	0.75	108	880	55	17 088	1 568.4	1979	88 03 - SUSP 88 08
1 114	6.96	0.200	0.42	0.79	102	869	54	17 506	1 623.4	1981	87 04
372	7.55	0.180	0.30	0.82	117	870	60	16 990	1 588.3	1978	89 02
64	4.05	0.220	0.33	0.75	117	870	60	16 840	1 580.1	1977	80 01

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
HIGHVALE 051-04W5 (CONTINUED)								
BANFF E	350.0	<0.01		2.7		2.7	2.7	
BANFF F	375.0	<0.01		1.0		1.0	1.0	
BANFF G	553.0	<0.01		0.1		0.1	0.1	
BANFF K	80.9	<0.01		0.1		0.1	0.1	
BANFF M	536.0	0.04		21.4		21.4	9.3	12.1
BANFF P	371.0	0.12		44.5		44.5	27.4	17.1
BANFF R	265.0	0.10		26.5		26.5	3.8	22.7
BANFF S	208.0	<0.01		1.7		1.7	1.7	
BANFF T	190.0	0.05		9.5		9.5	1.8	7.7
HILLSDOWN 037-25W4								
D-2 A	263.0	0.05		13.2		13.2	8.4	4.8
D-2 B	308.0	0.15		46.2		46.2	41.8	4.4
D-2 C	198.0	0.05		9.9		9.9	5.4	4.5
D-3 A	112.0	<0.02		1.3		1.3	1.3	
HOMEGLEN-RIMBEY 043-01W5								
ELLERSLIE A	156.0	<0.01		0.1		0.1	0.1	
PEKISKO A	334.0	0.10		33.4		33.4	5.6	27.8
D-3	14 900.0	0.09		1 341.0		1 341.0	1 182.5	158.5
D-3 B	700.0	0.50		350.0		350.0	66.6	283.4
D-3 C	321.0	0.20		64.2		64.2	5.0	59.2
HOOKER 015-29W4								
JURASSIC A	95.3	0.10		9.5		9.5	7.4	2.1
JURASSIC B	146.0	0.10		14.6		14.6	5.3	9.3
HUSSAR 025-20W4								
GLAUCONITIC A	6 980.0	<0.47		3 270.0		3 270.0	3 161.0	109.0
GLAUCONITIC B	1 300.0	0.03		39.0		39.0	29.8	9.2
GLAUCONITIC C	37.3	<0.06		2.1		2.1	2.1	
GLAUCONITIC E	842.0	0.07		58.9		58.9	49.0	9.9
GLAUCONITIC F	74.8	<0.06		4.4		4.4	4.4	
GLAUCONITIC G	926.0	0.06		55.6		55.6	52.6	3.0
GLAUCONITIC H	108.0	<0.08		8.1		8.1	8.1	
GLAUCONITIC J	263.0	0.10		26.3		26.3	14.9	11.4
GLAUCONITIC K	119.0	<0.04		4.6		4.6	4.6	
GLAUCONITIC U	155.0	0.15		23.3		23.3	20.1	3.2
GLAUCONITIC X	227.0	0.10		22.7		22.7	12.9	9.8
GLAUCONITIC BB	636.0	0.10		63.6		63.6	49.4	14.2
GLAUCONITIC DD	219.0	0.04		8.8		8.8	6.4	2.4
GLAUCONITIC SS	173.0	<0.01		0.3		0.3	0.3	
GLAUCONITIC VV	216.0	0.10		21.6		21.6	8.6	13.0
GLAUCONITIC YY	221.0	<0.02		2.8		2.8	2.8	
GLAUCONITIC FFF	32.6	<0.07		2.0		2.0	2.0	
GLAUCONITIC NNN	632.0	0.05		31.6		31.6	10.5	21.1
GLAUCONITIC RRR	364.0	0.01		3.6		3.6	0.8	2.8
GLAUCONITIC SSS	1 170.0	0.10		117.0		117.0	88.7	28.3
GLAUCONITIC TTT	55.3	0.10		5.5		5.5	3.3	2.2
GLAUCONITIC VVV	71.9	<0.01		0.1		0.1	0.1	
GLAUCONITIC B2B	71.8	<0.03		1.5		1.5	1.5	
GLAUCONITIC H2H	104.0	0.10		10.4		10.4	1.7	8.7
OSTRACOD C	79.5	0.02		1.6		1.6	1.6	
OSTRACOD H	49.3	0.01		0.5		0.5	0.5	
OSTRACOD P	125.0	<0.10		11.7		11.7	11.7	
OSTRACOD X	158.0	0.05		7.9		7.9	4.7	3.2
OSTRACOD BB	54.6	<0.01		0.3		0.3	0.3	
OSTRACOD CC	111.0	0.15		16.7		16.7	7.1	9.6
OSTRACOD FF	88.7	0.10		8.9		8.9	3.9	5.0
OSTRACOD GG	55.7	<0.01		0.1		0.1	0.1	
BASAL MANNVILLE A	105.0	<0.04		3.6		3.6	3.6	
BASAL MANNVILLE C	222.0	0.10		22.2		22.2	15.8	6.4
BASAL MANNVILLE E	215.0	<0.02		2.8		2.8	2.8	
BASAL MANNVILLE G	226.0	<0.01		0.4		0.4	0.4	
BASAL MANNVILLE H	284.0	<0.01		0.2		0.2	0.2	
BASAL MANNVILLE L	35.4	<0.08		2.7		2.7	2.7	
BASAL MANNVILLE M	300.0	0.10		30.0		30.0	27.6	2.4
BASAL MANNVILLE N	318.0	0.08		25.4		25.4	21.2	4.2
BASAL MANNVILLE O	1 910.0	0.10	0.05	191.0	95.5	287.0	200.3	86.7
WATER FLOOD								

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	5.00	0.190	0.30	0.82	89	870	60	17 297	1 613.8	1978	81 09 - ABAND 81 05
64	8.00	0.122	0.25	0.80	88	870	57	18 550	1 627.5	1981	85 12 - ABAND 85 12
64	5.40	0.250	0.20	0.80	88	870	57	18 438	1 610.3	1981	82 04 - ABAND 82 01
64	2.00	0.150	0.48	0.81	88	866	56	15 107	1 494.9	1983	83 10 - ABAND 83 09
64	7.42	0.215	0.36	0.82	117	870	60	16 010	1 577.9	1977	85 05
64	4.59	0.220	0.30	0.82	117	870	60	16 208	1 557.5	1980	85 05
64	5.56	0.164	0.44	0.81	112	889	57	16 700	1 575.7	1981	82 03 - SUSP 87 02
64	3.72	0.152	0.30	0.82	10	865	27	17 290	1 633.0	1979	89 12 - SUSP 87 02
32	6.38	0.190	0.41	0.83	85	951	56		1 662.0	1987	88 11
128	6.52	0.060	0.28	0.73	141	826	64	15 396	1 972.6	1980	84 12 - GPP
192	6.19	0.050	0.30	0.74	158	828	77	18 330	2 016.0	1973	81 12 - GPP
64	10.90	0.058	0.30	0.70	130	815	69	18 379	2 061.4	1985	89 12 - GPP
64	4.00	0.080	0.17	0.66	181	808	21	15 159	2 090.9	1985	86 05 - ABAND 87 02
64	2.70	0.150	0.25	0.80	60	898	53	11 721	1 752.0	1980	83 12 - SUSP 81 11
64	11.20	0.075	0.27	0.85	60	825	65	15 423	1 885.3	1985	85 12
4 563	7.56	0.077	0.15	0.66	165	811	83	19 550	2 415.5	1953	89 12 - GPP
105	12.20	0.100	0.30	0.78	159	810	83	10 985	2 390.4	1983	85 02
64	12.60	0.090	0.33	0.66	160	820	83	18 481	2 389.5	1985	86 03 - SUSP 89 03
64	2.01	0.105	0.15	0.83	120	880	72	27 714	2 790.8	1980	84 09
64	3.85	0.110	0.35	0.83	63	880	66	36 897	2 947.5	1980	81 06
675	7.07	0.210	0.14	0.81	82	844	46	10 400	1 454.2	1957	67 02 - GPP
192	5.38	0.210	0.25	0.81	81	860	46	10 070	1 424.6	1959	79 12 - GPP
16	1.83	0.200	0.21	0.80	82	860	45	10 140	1 425.9	1958	64 04 - SUSP 63 01
90	6.10	0.225	0.16	0.81	78	849	41	10 000	1 367.0	1959	79 12 - GPP
32	1.83	0.200	0.21	0.80	83	860	40	10 380	1 341.7	1959	64 04 - ABAND 68 07
209	2.96	0.221	0.23	0.88	80	860	41	9 890	1 369.2	1961	83 12 - GPP
21	3.70	0.210	0.18	0.80	80	860	44	10 000	1 407.3	1964	79 01 - ABAND 78 11
192	1.86	0.140	0.36	0.82	80	838	44	10 418	1 428.6	1977	82 05 - GPP
65	1.43	0.200	0.20	0.80	80	860	43	9 960	1 423.4	1959	83 12 - SUSP 76 12
163	0.91	0.150	0.14	0.81	80	860	36	10 070	1 399.9	1965	87 12 - GPP
65	2.74	0.210	0.25	0.81	62	839	46	10 030	1 433.5	1974	77 04 - GPP
177	3.05	0.210	0.30	0.80	82	844	44	10 330	1 416.4	1963	69 08
64	3.07	0.170	0.18	0.80	80	860	43	9 790	1 396.3	1969	89 12 - GPP
64	3.00	0.150	0.25	0.80	66	857	40	10 240	1 408.0	1979	81 12 - SUSP 83 12
64	4.40	0.160	0.40	0.80	88	860	49	10 741	1 461.8	1978	80 02 - GPP
128	2.75	0.140	0.44	0.80	72	849	43	10 513	1 407.3	1979	88 12 - SUSP 87 03
64	0.70	0.140	0.35	0.80	86	847	43	10 441	1 403.7	1980	89 12 - SUSP 87 01
117	7.59	0.140	0.38	0.82	56	856	45	9 795	1 392.0	1979	89 12
64	5.50	0.210	0.40	0.82	56	857	45	11 572	1 485.3	1982	85 12
708	1.53	0.202	0.33	0.80	86	860	44	9 980	1 428.0	1960	83 06
64	1.00	0.180	0.40	0.80	86	860	44	9 915	1 447.3	1979	83 06
64	1.40	0.150	0.34	0.81	79	847	46	11 506	1 380.2	1980	84 01 - SUSP 84 06
64	1.50	0.170	0.45	0.80	82	844	43	10 292	1 386.1	1984	84 12 - ABAND 88 07
64	2.00	0.190	0.48	0.82	56	857	45	9 963	1 426.0	1980	86 10
64	0.76	0.230	0.10	0.79	82	860	54	10 270	1 441.7	1959	68 03 - ABAND 61 09
16	2.44	0.200	0.21	0.79	82	860	46	10 270	1 397.2	1959	68 03 - ABAND 63 04
64	1.23	0.230	0.15	0.81	62	860	49	10 170	1 398.7	1965	81 12 - ABAND 88 05
64	2.16	0.250	0.42	0.79	64	865	37	10 100	1 291.7	1977	88 12
64	1.50	0.160	0.55	0.79	80	857	54	9 808	1 469.0	1980	83 01 - ABAND 82 10
64	2.00	0.180	0.40	0.80	56	857	41	9 358	1 399.9	1980	87 12 - SUSP 88 12
64	1.30	0.180	0.26	0.80	84	841	40	9 955	1 430.4	1984	85 05
64	1.00	0.200	0.50	0.87	50	854	38	9 784	1 279.5	1984	85 07 - ABAND 85 12
33	2.13	0.220	0.14	0.80	82	849	46	10 340	1 429.8	1957	68 03 - ABAND 63 07
64	2.74	0.200	0.21	0.80	82	849	47	10 340	1 467.3	1957	71 03 - GPP
32	6.40	0.168	0.23	0.80	82	849	44	10 140	1 418.5	1959	64 04 - SUSP 63 01
33	5.79	0.200	0.25	0.80	82	849	43	10 340	1 399.9	1960	64 04 - SUSP 62 03
32	7.32	0.200	0.25	0.80	82	849	43	10 000	1 417.3	1960	68 03 - ABAND 61 12
16	1.83	0.200	0.25	0.80	82	849	46	10 310	1 499.3	1958	77 07 - SUSP 83 12
146	2.16	0.170	0.30	0.80	82	849	44	10 170	1 417.9	1964	82 12 - GPP
133	2.13	0.200	0.30	0.80	82	849	42	10 200	1 421.3	1964	83 12 - GPP
357	6.13	0.176	0.38	0.80	81	849	44	10 100	1 414.6	1964	84 12 - GPP

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
HUSSAR 025-20W4 (CONTINUED)								
BASAL MANNVILLE P	248.0	<0.05		12.3		12.3	12.3	
BASAL MANNVILLE Q	953.0	0.06		57.2		57.2	52.8	4.4
BASAL MANNVILLE Y	175.0	0.10		17.5		17.5	14.2	3.3
BASAL MANNVILLE KK	74.7	<0.01		0.3		0.3	0.3	
BASAL MANNVILLE QQ	1 093.0	0.08		87.4		87.4	37.9	49.5
BASAL MANNVILLE QQ	113.0	<0.01		0.2		0.2	0.2	
BASAL MANNVILLE SS	651.0	<0.01		1.9		1.9	1.9	
BASAL MANNVILLE UU	71.7	<0.01		0.3		0.3	0.3	
BASAL MANNVILLE I&Z	276.0	0.12		33.1		33.1	32.2	0.9
BASAL MANNVILLE AAA	1 228.0	0.02		24.6		24.6	6.9	17.7
BASAL QUARTZ B	221.0	0.10		22.1		22.1	3.0	19.1
PEKISKO B	143.0	<0.01		0.1		0.1	0.1	
HUTCH 112-22W5								
SLAVE POINT A	324.0	0.20		64.8		64.8	0.9	63.9
SLAVE POINT B	608.0	0.20		122.0		122.0	1.4	120.6
SLAVE POINT C	263.0	0.20		53.0		53.0	0.2	52.8
SLAVE POINT D	321.0	0.20		64.2		64.2		64.2
SLAVE POINT E	168.0	0.15		25.2		25.2		25.2
HUXLEY 034-24W4								
LOWER MANNVILLE B	292.0	0.01		4.7		4.7	4.7	
LOWER MANNVILLE C	155.0	0.00		1.2		1.2		1.2
HYTHE 073-09W5								
HALFWAY A	409.0	0.10		40.9		40.9	8.6	32.3
HALFWAY B	119.0	0.10		11.9		11.9	5.6	6.3
HALFWAY C	330.0	0.10		33.0		33.0	8.2	24.8
HALFWAY D	121.0	0.10		12.1		12.1	1.8	10.3
HALFWAY E	266.0	0.10		26.6		26.6	1.5	25.1
HALFWAY F	419.0	0.10		41.9		41.9	8.3	33.6
INNISFAIL 034-01W5								
BELLY RIVER A	844.0	0.05		42.2		42.2	9.0	33.2
BELLY RIVER B	267.0	<0.01		0.2		0.2	0.2	
BELLY RIVER C	295.0	0.05		14.8		14.8	3.2	11.6
BLAIRMORE	88.5	<0.06		4.9		4.9	4.9	
D-3	19 700.0	0.65		12 800.0		12 800.0	12 168.4	631.6
IRON SPRINGS 011-20W4								
BOW ISLAND A	50.4	0.10		5.0		5.0	4.3	0.7
JAYAR 062-03W5								
DUNVEGAN A	3 450.0	0.10		345.0		345.0	132.6	212.4
DUNVEGAN B	233.0	0.10		23.3		23.3	16.2	7.1
DUNVEGAN C	229.0	0.10		22.9		22.9	12.3	10.6
DUNVEGAN D	191.0	0.10		19.1		19.1	1.8	17.3
DUNVEGAN E	215.0	0.10		21.5		21.5	1.3	20.2
JOAN 091-10W5								
GRANITE WASH A	139.0	0.20		27.8		27.8	4.2	23.6
GRANITE WASH B	183.0	<0.02		2.0		2.0	2.0	
JOARCAM 048-21W4								
VIKING TOTAL	42 500.0			15 990.0	3 042.0	19 030.0	16 596.4	2 433.6
PRIMARY AREA	15 310.0	<0.40		6 084.0		6 084.0		
WATER FLOOD AREA	27 190.0	<0.37	0.11	9 904.0	3 042.0	12 950.0		
VIKING C	115.0	0.05		5.8		5.8	4.7	1.1
VIKING K	11.2	0.01		0.1		0.1	0.1	
WABAMUN A	146.0	<0.01		0.2		0.2	0.2	
JOFFRE 038-26W4								
VIKING TOTAL	14 800.0			2 490.0	3 670.0	6 160.0	5 834.7	325.3
PRIMARY AREA	325.0	0.15		48.0		48.0		
WATER FLOOD AREA	14 500.0	<0.17	0.26	2 440.0	3 670.0	6 110.0		
VIKING B	380.0	0.30		114.0		114.0	105.1	8.9
VIKING C	130.0	0.05		6.5		6.5	2.9	3.6
VIKING D	340.0	0.15		51.0		51.0	32.9	18.1
VIKING E	123.0	0.15		18.5		18.5	7.2	11.3
BLAIRMORE A	192.0	<0.04		5.8		5.8	5.8	
BLAIRMORE B	304.0	<0.11		32.8		32.8	32.8	

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
65	4.57	0.150	0.30	0.80	82	849	44	10 140	1 426.2	1964	83 12 - ABAND 88 05
317	2.32	0.200	0.19	0.80	82	849	46	10 650	1 457.9	1959	82 12 - GPP
65	2.32	0.200	0.26	0.79	82	849	42	9 860	1 426.8	1959	86 12 - GPP
65	1.83	0.120	0.35	0.81	84	849	44	10 200	1 409.7	1969	70 08 - SUSP 70 01
144	11.40	0.160	0.48	0.80	61	877	37	10 180	1 440.9	1977	89 12 - GPP
64	2.00	0.170	0.35	0.80	82	840	43	11 256	1 520.0	1979	83 12 - SUSP 81 04
64	11.50	0.170	0.35	0.80	63	865	39	8 727	1 499.7	1980	85 12 - SUSP 84 09
64	2.00	0.140	0.50	0.80	84	857	42	10 676	1 481.9	1980	84 12 - SUSP 83 08
50	4.78	0.190	0.24	0.80	84	849	38	10 340	1 441.7	1955	83 12 - GPP
128	12.46	0.150	0.41	0.87	52	861	49	9 995	1 417.3	1985	88 08
64	4.80	0.180	0.50	0.80	70	870	30	9 714	1 335.8	1981	83 02
64	5.00	0.080	0.32	0.82	75	854	47	10 169	1 441.5	1980	81 10 - ABAND 83 02
64	12.50	0.060	0.25	0.90	28	865	56	9 851	1 128.2	1985	86 03
64	18.57	0.072	0.21	0.90	42	883	40	9 659	1 126.8	1986	86 08
64	7.77	0.098	0.40	0.90	34	883	51	9 747	1 106.5	1987	87 12
64	10.80	0.067	0.23	0.90	36	867	39	9 901	1 136.3	1987	88 04
64	4.15	0.090	0.22	0.90	34	875	50	6 382	1 135.5	1987	88 05
64	4.10	0.160	0.20	0.87	47	875	62		1 593.7	1988	89 12
64	3.10	0.120	0.25	0.87	47	875	62		1 578.3	1988	89 12
128	7.14	0.090	0.28	0.69	149	829	64	22 263	2 260.5	1981	83 03 - GPP
64	5.50	0.063	0.20	0.67	155	825	62	21 888	2 203.0	1978	82 12 - GPP
128	5.36	0.093	0.25	0.69	250	827	75	22 360	2 178.8	1981	85 05
64	5.45	0.080	0.36	0.68	188	830	62	22 112	2 231.0	1979	86 02 - GPP
64	10.84	0.073	0.24	0.69	149	826	64	22 042	2 221.9	1985	87 05
64	11.62	0.109	0.25	0.69	149	823	64	22 125	2 254.3	1986	87 08
128	9.08	0.150	0.45	0.88	36	816	36	5 393	1 208.5	1982	86 12
64	6.15	0.140	0.45	0.88	36	815	43	4 937	1 195.4	1983	88 12 - ABAND 85 06
32	11.90	0.160	0.45	0.88	36	876	43	8 438	1 292.8	1983	89 12
16	4.88	0.200	0.15	0.66	154	834	78	16 800	2 053.7	1956	64 04 - SUSP 60 06
3 034	23.47	0.060	0.13	0.53	300	806	92	24 510	2 615.8	1957	86 12 - GPP
64	0.93	0.150	0.40	0.94	25	876	21	5 558	868.3	1977	85 08 - SUSP 88 11
758	9.10	0.110	0.30	0.65	185	752	66	23 965	2 330.1	1979	81 12
64	7.84	0.102	0.30	0.65	185	752	76	23 910	2 394.0	1981	81 12
64	8.73	0.097	0.35	0.65	155	832	74	21 739	2 488.3	1982	82 12
64	7.22	0.091	0.30	0.65	185	825	66	23 962	2 537.6	1981	81 06
64	7.83	0.100	0.37	0.68	165	824	66	21 666	2 520.6	1988	88 12
64	3.30	0.153	0.50	0.86	48	828	38	15 273	1 481.3	1982	82 06 - SUSP 88 09
64	3.10	0.165	0.35	0.86	55	830	35	15 643	1 477.7	1982	83 05 - ABAND 89 03
9 035					34	834	36	6 000	990.0	1949	89 09
3 818	3.14	0.197	0.28	0.90							
5 217	4.17	0.193	0.28	0.90							
128	0.95	0.170	0.38	0.90	45	859	32	5 561	1 000.6	1965	84 11
16	1.30	0.100	0.40	0.90	43	852	34	5 786	994.7	1987	88 08 - ABAND 88 09
64	6.50	0.075	0.45	0.85	64	836	40	7 403	1 188.8	1980	84 12 - SUSP 83 10
8 219					67	820	51	7 720	1 517.6	1953	79 08 - GPP
539	1.08	0.111	0.38	0.81							
7 680	3.39	0.111	0.38	0.81							
785	0.83	0.120	0.40	0.81	66	817	56	7 696	1 538.5	1955	85 12
123	1.55	0.120	0.34	0.83	70	817	30	8 296	1 603.4	1959	85 08
500	1.06	0.120	0.34	0.81	66	817	56	7 842	1 602.3	1981	88 12
128	3.00	0.070	0.43	0.80	99	820	44	9 132	1 559.5	1985	86 08
32	7.96	0.130	0.28	0.80	71	860	71	14 130	1 754.1	1958	64 04 - ABAND 70 06
162	2.44	0.130	0.25	0.79	76	860	67	14 550	1 733.1	1958	88 12 - ABAND 85 09

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
JOFFRE 038-26W4 (CONTINUED)								
BLAIRMORE F	76.3	<0.04		2.5		2.5	2.5	
BLAIRMORE L	37.9	0.10		3.8		3.8	2.9	0.9
BLAIRMORE M	35.0	0.10		3.5		3.5	0.4	3.1
D-2 TOTAL	28 380.0			8 534.0	1 600.0	10 130.0	7 211.4	2 918.6
PRIMARY AREA	1 780.0	0.30		534.0		534.0		
WATER FLOOD AREA	26 600.0	0.30	0.06	8 000.0	1 600.0	9 600.0		
D-3 A	30.3	<0.05		1.3		1.3	1.3	
JOFFRE D-3B	2 100.0	0.40	0.38	840.0	798.0	1 638.0	269.7	1 368.3
SOLVENT FLOOD								
D-3 C	223.0	0.40		89.2		89.2	0.3	88.9
D-3 D	530.0	<0.01		0.9		0.9	0.9	
JOHNSON 017-14W4								
DETRITAL A	13.9	<0.02		0.2		0.2	0.2	
JOSEPHINE 083-09W6								
KISKATINAW B	149.0	<0.01		1.1		1.1	1.1	
JUDY CREEK 063-11W5								
VIKING A	6 000.0	0.15		900.0		900.0	761.7	138.3
VIKING D	307.0	<0.01		0.1		0.1	0.1	
PEKISKO A	115.0	<0.01		0.1		0.1	0.1	
BEAVERHILL LAKE A	130 400.0			20 860.0	34 930.0	55 790.0	47 330.8	8 459.2
TOTAL								
PRIMARY AREA	402.0	0.16		64.3		64.3		
SOLVENT FLOOD AREA	55 900.0	0.16	0.32	8 940.0	17 890.0	26 830.0		
WATER FLOOD AREA	74 100.0	0.16	0.23	11 860.0	17 040.0	28 900.0		
BEAVERHILL LAKE B	41 300.0			8 260.0	11 140.0	19 400.0	15 844.9	3 555.1
TOTAL								
SOLVENT FLOOD AREA	7 430.0	0.20	0.36	1 490.0	2 670.0	4 160.0		
WATER FLOOD AREA	33 870.0	0.20	0.25	6 770.0	8 470.0	15 240.0		
BEAVERHILL LAKE C	275.0	0.20		55.0		55.0	31.7	23.3
BEAVERHILL LAKE D	60.8	0.15		9.1		9.1	0.3	8.8
JUDY CREEK SOUTH 062-11W5								
BEAVERHILL LAKE	1 611.0			322.0	259.0	581.0	460.3	120.7
TOTAL								
PRIMARY AREA	315.0	0.20		63.0		63.0		
WATER FLOOD AREA	1 296.0	0.20	0.20	259.0	259.0	518.0		
BEAVERHILL LAKE C	1 500.0	0.10		150.0		150.0	89.6	60.4
BEAVERHILL LAKE D	283.0	<0.01		0.5		0.5	0.5	
BEAVERHILL LAKE E	275.0	0.10		27.5		27.5	1.7	25.8
JUMPBUSH 020-19W4								
UPPER MANNVILLE A	2 820.0	0.10		282.0		282.0	123.4	158.6
UPPER MANNVILLE E	384.0	0.15		57.6		57.6	37.4	20.2
UPPER MANNVILLE F	265.0	0.10		26.5		26.5	13.0	13.5
UPPER MANNVILLE G	102.0	<0.01		0.8		0.8	0.8	
UPPER MANNVILLE I	455.0	0.15		68.3		68.3	10.9	57.4
UPPER MANNVILLE J	539.0	0.15		80.9		80.9	5.8	75.1
UPPER MANNVILLE K	58.8	0.10		5.9		5.9	1.1	4.8
UPPER MANNVILLE L	315.0	0.15		47.3		47.3	1.6	45.7
KAKUT 075-03W6								
CHARLIE LAKE A	360.0	0.15		54.0		54.0	25.3	28.7
CHARLIE LAKE B	1 100.0	0.20	0.10	220.0	110.0	330.0	84.5	245.4
WATER FLOOD								
KAKWA 063-05W6								
MAIN CARDIUM A	1 593.0	0.10		159.0		159.0	46.9	112.1
MAIN CARDIUM C	34.6	<0.01		0.1		0.1	0.1	
A CARDIUM A TOTAL	5 460.0			819.0	680.0	1 499.0	882.3	616.7
PRIMARY AREA	1 880.0	0.15		282.0		282.0		
GAS FLOOD AREA	3 580.0	0.15	0.19	537.0	680.0	1 217.0		
C CARDIUM A	383.0	0.13		49.8		49.8	31.2	18.6
C CARDIUM B	324.0	0.12		38.9		38.9	15.8	22.1
C CARDIUM C	241.0	0.05		12.0		12.0	0.2	11.8
DUNVEGAN A	204.0	<0.01		0.8		0.8	0.8	
DUNVEGAN B	99.9	<0.02		1.7		1.7	1.7	
DUNVEGAN C	186.0	0.10		18.6		18.6	8.3	10.3

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
65	2.44	0.100	0.40	0.80	84	870	67	14 850	1 723.9	1975	75 12 - ABAND 87 08
64	1.46	0.080	0.35	0.78	91	878	69	14 465	1 733.8	1985	86 08
64	0.90	0.120	0.35	0.78	91	879	69	14 671	1 801.6	1987	88 10 - GPP
11 083					130	815	77	17 510	2 134.2	1956	88 12 - GPP
740	6.78	0.060	0.19	0.73							
10 343	10.40	0.044	0.23	0.73							
64	0.90	0.080	0.10	0.73	110	824	79	15 441	2 212.5	1964	86 01 - ABAND 86 06
62	54.20	0.100	0.12	0.71	111	832	72	16 449	2 159.5	1985	89 09
64	9.00	0.060	0.14	0.75	111	832	74	16 098	2 120.8	1986	86 12
64	14.40	0.090	0.10	0.71	135	829	78	18 460	2 286.7	1987	88 10 - ABAND 89 08
16	1.00	0.220	0.52	0.82	70	888	54	10 652	1 033.0	1983	83 10 - ABAND 83 10
64	4.90	0.097	0.30	0.70	150	904	51	15 130	1 749.7	1975	82 12 - ABAND 87 10
4 206	1.46	0.170	0.34	0.87	48	839	54	9 061	1 409.3	1969	83 05 - GPP
65	4.57	0.170	0.30	0.87	51	849	48	8 360	1 486.2	1977	83 12 - SUSP 78 01
32	7.50	0.070	0.22	0.88	47	921	61		1 523.3	1988	89 03 - ABAND 88 12
11 748					122	820	96	24 200	2 650.9	1959	89 12
128	6.35	0.085	0.18	0.71							
4 996	20.84	0.090	0.16	0.71							- GPP
6 624	20.84	0.090	0.16	0.71							- GPP
4 538					184	815	97	24 820	2 695.0	1959	89 12 - GPP
896	17.80	0.092	0.17	0.61							
3 642	19.97	0.092	0.17	0.61							
128	6.96	0.060	0.17	0.62	184	815	97	24 073	2 789.4	1962	87 03
64	2.66	0.068	0.26	0.71	131	820	96		2 543.8	1988	89 05
662					229	815	85	24 820	2 723.6	1960	89 07
192	5.56	0.060	0.18	0.60							
470	8.12	0.069	0.18	0.60							
1 230	3.08	0.068	0.18	0.71	112	815	84	23 170	2 726.1	1971	85 12
128	8.50	0.050	0.35	0.80	176	828	92	24 086	2 699.5	1984	88 12 - SUSP 86 05
64	12.80	0.080	0.40	0.70	131	820	96	24 804	2 662.5	1985	86 06
341	6.20	0.210	0.25	0.85	75	876	41	11 940	1 358.0	1977	82 06
128	2.10	0.210	0.20	0.85	75	876	41	11 700	1 350.7	1977	82 06
64	4.62	0.160	0.30	0.80	93	865	39	11 980	1 344.3	1976	79 07 - GPP
64	1.70	0.180	0.35	0.80	90	865	36	12 521	1 354.5	1980	83 12 - ABAND 87 06
64	4.30	0.240	0.18	0.84	72	861	40	11 317	1 303.2	1984	85 04
64	5.00	0.260	0.22	0.83	73	857	40	11 198	1 306.5	1987	87 08
64	0.80	0.180	0.25	0.85	80	871	48	11 832	1 342.1	1987	88 01
64	4.00	0.220	0.35	0.86	65	868	40		1 424.8	1988	89 01
247	1.88	0.134	0.32	0.85	68	847	49	13 715	1 510.0	1982	85 11
712	1.17	0.195	0.14	0.79	86	813	63	13 070	1 414.6	1984	89 08
448	6.28	0.110	0.22	0.66	192	790	53	20 248	1 856.4	1987	88 05
64	1.41	0.086	0.28	0.62	132	798	53	20 209	1 757.6	1979	81 07 - SUSP 83 08
3 840					254	794	52	21 248	1 826.1	1978	87 08
1 664	2.11	0.113	0.21	0.60							
2 176	2.80	0.124	0.21	0.60							
320	1.83	0.130	0.15	0.59	253	780	52	21 213	1 822.5	1979	88 04
204	2.61	0.120	0.14	0.59	268	790	55	20 558	1 785.6	1980	85 02
64	9.48	0.100	0.37	0.63	192	775	51	13 261	1 737.4	1957	88 05
64	7.00	0.100	0.30	0.65	185	850	67	23 990	2 453.5	1980	88 06 - ABAND 87 11
64	5.20	0.110	0.58	0.65	160	811	74	23 130	2 346.1	1981	88 12 - ABAND 87 11
64	5.10	0.120	0.35	0.73	165	830	67	23 860	2 436.8	1980	86 11

TABLE 2-4

FIELD POOL	1	3		5		6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
KARR 066-02W6								
DUNVEGAN A	137.0	<0.01		0.1		0.1	0.1	
DUNVEGAN C	218.0	0.10		21.8		21.8	1.0	20.8
KAYBOB 064-19W5								
GETHING C	186.0	<0.01		0.1		0.1	0.1	
GETHING D	205.0	<0.01		0.7		0.7	0.7	
GETHING I	33.3	<0.01		0.2		0.2	0.2	
GETHING K	5 760.0	<0.02		80.0		80.0	76.3	3.7
GETHING O	1 083.0	0.03		32.5		32.5	11.4	21.1
TRIASSIC A	53.3	0.15		8.0		8.0	0.9	7.1
NISKU C	1 100.0	<0.01		7.5		7.5	7.5	
BEAVERHILL LAKE A	44 090.0			7 050.0	12 760.0	19 810.0	16 407.3	3 402.7
TOTAL								
PRIMARY AREA	88.6	0.10		8.9		8.9		
SOLVENT FLOOD AREA	34 000.0	0.16	0.30	5 440.0	10 360.0	15 800.0		
WATER FLOOD AREA	10 000.0	0.16	0.24	1 600.0	2 400.0	4 000.0		
BEAVERHILL LAKE B	1 270.0	0.16		203.0		203.0	123.5	79.5
KAYBOB SOUTH 060-19W5								
DUNVEGAN A	174.0	<0.02		2.4		2.4	2.4	
DUNVEGAN B	808.0	0.03		24.2		24.2	15.8	8.4
BLUESKY A	63.9	<0.01		0.6		0.6	0.6	
GETHING C	98.7	<0.01		0.4		0.4	0.4	
TRIASSIC A TOTAL	34 910.0			5 894.0	11 910.0	17 800.0	13 070.3	4 729.7
PRIMARY AREA	611.0	0.17		104.0		104.0		
SOLVENT FLOOD AREA	14 500.0	0.17	0.44	2 420.0	6 380.0	8 800.0		
WATER FLOOD AREA	19 800.0	0.17	0.30	3 370.0	5 530.0	8 900.0		
KEHO 011-22W4								
COLORADO A	388.0	0.10		38.8		38.8	28.2	10.6
BOW ISLAND C	345.0	<0.02		5.4		5.4	5.4	
BOW ISLAND F	276.0	0.10		27.6		27.6	16.7	10.9
BOW ISLAND G	414.0	0.10	0.20	41.4	82.8	124.0	40.8	83.2
WATER FLOOD								
BOW ISLAND H	100.0	0.10		10.0		10.0	4.4	5.6
ELKTON A	192.0	0.08		15.4		15.4	10.6	4.8
PEKISK0 A	242.0	<0.02		2.7		2.7	2.7	
KELSEY 044-18W4								
LOWER MANNVILLE A	103.0	<0.01		0.2		0.2	0.2	
LOWER MANNVILLE B	1 319.0	0.05		66.0		66.0	1.2	64.8
KIDNEY 092-05W5								
SLAVE POINT A	246.0	0.15		36.9		36.9	1.0	35.9
SLAVE POINT B	331.0	0.10		33.1		33.1	0.1	33.0
SLAVE POINT C	252.0	0.05		12.6		12.6	0.2	12.4
KEG RIVER A	1 073.0	0.25		268.0		268.0	52.9	215.1
KEG RIVER B	1 200.0	0.25		300.0		300.0	79.5	220.5
KEG RIVER C	579.0	0.25		145.0		145.0	44.1	100.9
KEG RIVER D	273.0	0.25		68.3		68.3	19.9	48.4
KEG RIVER E	345.0	0.25		86.3		86.3	25.2	61.1
KEG RIVER G	424.0	0.25		106.0		106.0	30.0	76.0
KEG RIVER I	553.0	0.25		138.0		138.0	37.1	100.9
KEG RIVER J	793.0	0.25		198.0		198.0	56.6	141.4
KEG RIVER K	142.0	0.20		28.4		28.4	7.4	21.0
KEG RIVER L	595.0	0.25		149.0		149.0	13.9	135.1
KEG RIVER M	564.0	0.20		113.0		113.0	15.1	97.9
KEG RIVER N	42.8	<0.02		0.6		0.6	0.6	
KEG RIVER O	323.0	0.25		80.8		80.8	9.9	70.9
KEG RIVER P	239.0	0.25		59.8		59.8	6.9	52.9
KEG RIVER Q	265.0	0.25		66.3		66.3	13.9	52.4
KEG RIVER R	65.1	0.25		16.3		16.3	2.9	13.4
KEG RIVER S	58.5	0.25		14.6		14.6	3.5	11.1
KEG RIVER T	129.0	0.25		32.3		32.3	7.5	24.8
KEG RIVER U	134.0	0.15		20.1		20.1	2.1	18.0
KEG RIVER V	63.4	0.25		15.9		15.9	3.6	7.4
KEG RIVER W	519.0	0.10		51.9		51.9	9.6	42.3
KEG RIVER X	177.0	0.25		44.3		44.3	2.2	42.1
KEG RIVER Y	764.0	0.25		191.0		191.0	37.3	153.7
KEG RIVER AA	136.0	0.25		34.0		34.0	3.8	30.2
KEG RIVER BB	2 086.0	0.25		522.0		522.0	104.4	417.6
KEG RIVER CC	506.0	0.25		127.0		127.0	25.4	101.6

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.62	0.120	0.40	0.82	72	837	49	12 923	1 627.9	1984	86 01 - SUSP 85 10
64	5.54	0.121	0.38	0.82	68	847	48		1 834.7	1986	88 01 - SUSP 89 04
64	6.70	0.100	0.49	0.85	48	885	71	14 178	1 754.2	1981	83 12 - SUSP 82 09
64	2.70	0.170	0.17	0.84	96	874	60	14 175	1 753.9	1981	84 12 - SUSP 83 03
16	2.20	0.150	0.30	0.90	34	941	54	14 768	1 760.1	1986	88 01 - ABAND 88 06
1 040	5.82	0.160	0.30	0.85	57	887	73	14 480	1 810.5	1962	83 12 - GPP
128	8.95	0.168	0.33	0.84	64	874	60	14 397	1 836.5	1985	89 08
64	1.24	0.137	0.30	0.70	117	828	79	16 725	1 924.1	1986	86 10
64	36.00	0.072	0.15	0.78	100	837	74	13 880	2 541.5	1978	85 07 - ABAND 86 02
6 884					199	811	113	31 920	2 980.9	1957	89 09
64	5.80	0.050	0.23	0.62							
5 000	17.82	0.075	0.19	0.62							- GPP
1 820	18.56	0.062	0.23	0.62							- GPP
501	8.78	0.064	0.26	0.61	435	797	109	30 270	2 949.5	1961	76 08
64	3.64	0.160	0.40	0.78	94	830	60	12 410	1 618.4	1977	79 11 - ABAND 83 01
256	4.33	0.130	0.34	0.85	82	831	55	13 710	1 658.6	1976	86 12 - GPP
65	1.52	0.120	0.28	0.75	103	829	82	12 800	2 024.8	1976	83 12 - ABAND 80 02
64	3.06	0.120	0.40	0.70	156	824	82	14 451	2 077.8	1979	84 12 - SUSP 84 09
8 652					123	815	86	17 450	2 095.5	1963	87 12
338	2.20	0.130	0.11	0.71							- GPP
3 249	6.73	0.105	0.11	0.71							- GPP
5 065	5.89	0.105	0.11	0.71							
256	1.25	0.187	0.28	0.90	24	870	38	7 580	1 133.2	1974	75 09 - GPP
65	6.95	0.163	0.50	0.94	20	839	49	3 480	1 175.6	1975	88 12 - ABAND 84 03
128	2.90	0.150	0.45	0.90	27	819	31	3 866	991.9	1981	86 04
270	1.71	0.135	0.30	0.95	27	873	31	5 604	957.5	1984	89 02
125	1.20	0.100	0.30	0.95	25	855	32	3 871	1 045.0	1978	88 12 - GPP
64	3.05	0.160	0.14	0.71	128	839	42	14 840	1 550.2	1973	83 12 - GPP
64	19.00	0.030	0.15	0.78	92	878	50	18 777	1 902.5	1979	83 12 - ABAND 83 10
64	1.50	0.210	0.40	0.85	58	856	42	7 188	1 129.7	1982	83 06 - SUSP 83 12
128	6.16	0.230	0.21	0.92	35	875	34	8 187	1 135.0	1987	88 08 - SUSP 89 02
64	12.50	0.060	0.41	0.87	53	827	33	14 050	1 056.5	1987	87 01
64	14.80	0.067	0.40	0.87	52	850	34	13 877	1 036.6	1986	86 02
64	6.80	0.090	0.26	0.87	57	822	38	7 536	1 037.0	1987	88 09 - SUSP 88 11
320	10.50	0.055	0.34	0.88	47	829	40	13 842	1 291.1	1985	87 08
583	5.58	0.059	0.29	0.88	43	825	39	13 956	1 350.9	1985	89 01
192	9.92	0.048	0.28	0.88	43	818	36	14 043	1 433.8	1986	87 03
64	8.22	0.092	0.36	0.88	42	835	39	13 798	1 323.3	1986	86 06
64	14.97	0.066	0.39	0.88	44	835	39	13 925	1 425.2	1986	86 06
128	8.84	0.060	0.29	0.88	43	835	39	13 901	1 329.6	1986	88 02
192	7.44	0.063	0.31	0.89	23	835	39	14 129	1 344.3	1986	88 01
256	9.36	0.057	0.34	0.88	45	835	38	14 056	1 475.2	1986	87 12
119	4.30	0.050	0.37	0.88	47	835	40	13 926	1 334.9	1986	89 08
256	8.30	0.054	0.43	0.91	43	854	41	14 534	1 431.3	1986	88 07
192	7.29	0.079	0.42	0.88	47	829	40	13 317	1 316.2	1986	88 02
64	2.09	0.056	0.35	0.88	43	838	39	13 391	1 406.6	1986	89 12 - SUSP 87 05
64	12.45	0.061	0.27	0.91	32	831	39	14 159	1 339.7	1985	87 02
64	11.20	0.060	0.39	0.91	32	834	41	13 314	1 329.1	1985	87 02 - SUSP 89 03
128	5.97	0.056	0.32	0.91	45	835	39	14 311	1 374.1	1986	88 07
64	4.73	0.043	0.45	0.91	32	835	39	14 492	1 331.6	1986	87 02
64	2.80	0.053	0.30	0.88	43	818	39	14 217	1 417.6	1986	87 03
64	5.18	0.066	0.35	0.91	32	821	39	7 322	1 395.0	1986	87 03
64	6.44	0.066	0.44	0.88	31	836	36	13 695	1 309.8	1986	87 04
64	3.05	0.051	0.30	0.91	32	821	39	13 872	1 392.8	1987	87 05
128	12.80	0.053	0.33	0.89	41	818	39	14 243	1 478.8	1987	89 12
64	5.80	0.086	0.37	0.88	47	835	40	13 550	1 274.9	1987	87 07
320	8.59	0.047	0.35	0.91	32	824	39	14 322	1 497.0	1987	88 06
64	7.80	0.045	0.32	0.89	41	835	39	13 379	1 310.5	1987	87 12
653	5.95	0.078	0.26	0.93	23	70	39		1 475.6	1987	89 01
256	6.45	0.051	0.34	0.91	41	841	39	13 368	1 494.7	1987	87 12

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
KIDNEY 092-05W5 (CONTINUED)								
KEG RIVER DD	169.0	0.25		42.3		42.3	11.7	30.6
KEG RIVER EE	128.0	0.25		32.0		32.0	7.0	25.0
KEG RIVER FF	67.8	0.25		17.0		17.0	6.7	10.3
KEG RIVER GG	128.0	0.25		32.0		32.0	1.0	31.0
KEG RIVER HH	125.0	0.25		31.3		31.3	1.8	29.5
KEG RIVER II	105.0	0.25		26.3		26.3	5.5	20.8
KEG RIVER JJ	117.0	0.25		29.3		29.3	4.4	24.9
KEG RIVER KK	109.0	0.25		27.3		27.3	2.3	25.0
KEG RIVER LL	116.0	0.25		29.0		29.0	0.4	28.6
KEG RIVER MM	193.0	0.25		48.3		48.3	8.0	40.3
KEG RIVER NN	95.8	0.25		24.0		24.0	1.2	22.8
KEG RIVER OO	125.0	0.10		12.5		12.5	1.1	11.4
KEG RIVER PP	141.0	0.25		35.3		35.3	1.8	33.5
KEG RIVER QQ	149.0	0.25		37.3		37.3	6.2	31.1
KEG RIVER RR	119.0	0.25		29.8		29.8	6.6	23.2
KEG RIVER SS	428.0	0.25		107.0		107.0	17.4	89.6
KEG RIVER TT	352.0	0.25		88.0		88.0	11.9	76.1
KEG RIVER UU	86.9	0.20		17.4		17.4	3.3	14.1
KEG RIVER VV	124.0	0.25		31.0		31.0	4.5	26.5
KEG RIVER WW	278.0	0.25		69.5		69.5	5.6	63.9
KEG RIVER XX	92.3	0.15		13.8		13.8	1.5	12.3
KEG RIVER AAA	43.0	0.25		10.8		10.8		10.8
KEG RIVER BBB	80.2	0.25		20.1		20.1		20.1
KEG RIVER DDD	65.0	0.15		9.8		9.8	1.6	8.2
KEG RIVER EEE	69.5	0.15		10.4		10.4	0.8	9.6
KILLAM 043-10W4								
UPPER VIKING B	318.0	0.15		47.7		47.7	46.7	1.0
UPPER VIKING C	44.8	0.10		4.5		4.5	3.5	1.0
UPPER VIKING D	28.4	<0.02		0.5		0.5	0.5	
UPPER VIKING E	70.0	<0.01		0.3		0.3	0.3	
UPPER VIKING H	388.0	0.10		38.8		38.8	11.6	27.2
GLAUCONITIC S	1 900.0	0.40		750.0		750.0	472.2	287.8
GLAUCONITIC FF	1 415.0	0.40		566.0		566.0	242.5	323.5
KITTY 086-12W5								
SLAVE POINT A	207.0	0.10		20.7		20.7	8.6	12.1
SLAVE POINT B	408.0	0.30		122.0		122.0	39.0	83.0
SLAVE POINT C	333.0	0.30		99.9		99.9	46.5	53.4
SLAVE POINT D	55.0	0.30		16.5		16.5	2.5	14.0
SLAVE POINT E	134.0	<0.02		2.0		2.0	2.0	
SLAVE POINT F	103.0	0.10		10.3		10.3	1.9	8.4
SLAVE POINT G	34.7	0.30		10.4		10.4	5.9	4.5
SLAVE POINT H	40.0	0.30		12.0		12.0	0.6	11.4
GRANITE WASH A	83.7	0.15		12.6		12.6	5.6	7.0
GRANITE WASH B	121.0	0.20		24.2		24.2	0.4	23.8
KNAPPEN 001-11W4								
LOWER MANNVILLE A	429.0	0.10		42.9		42.9	40.9	2.0
LOWER MANNVILLE B	278.0	<0.01		0.6		0.6	0.6	
LOWER MANNVILLE C	378.0	0.08		30.4		30.4	22.9	7.5
LOWER MANNVILLE F	229.0	0.05		11.5		11.5	6.0	5.5
KNOPCIK 074-10W6								
DOE CREEK B	311.0	0.10		31.1		31.1	0.2	30.9
CHARLIE LAKE A	153.0	0.10		15.3		15.3	0.5	14.8
CHARLIE LAKE B	114.0	0.10		11.4		11.4	5.4	6.0
CHARLIE LAKE C	117.0	0.10		11.7		11.7	1.2	10.5
HALFWAY A	193.0	0.10		19.3		19.3	0.5	18.8
LA GLACE 074-08W6								
CHARLIE LAKE A	86.9	0.05		4.3		4.3	0.1	4.2
BOUNDARY A	222.0	0.20		44.4		44.4	41.5	2.9
HALFWAY A	10.9	0.10		1.1		1.1	0.1	1.0
LACOMBE 039-25W4								
NISKU A	113.0	0.13		14.7		14.7	13.5	1.2
NISKU B	75.6	0.10		7.6		7.6	4.9	2.7
NISKU C	176.0	0.20		35.2		35.2	25.5	9.7
NISKU D	325.0	0.20		65.0		65.0	11.5	53.5
NISKU E	125.0	0.25		31.2		31.2	5.2	26.0

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	7.90	0.056	0.33	0.89	41	835	39	13 830	1 483.7	1986	88 01
128	3.51	0.049	0.34	0.88	35	835	39	14 288	1 492.3	1986	88 04
64	4.50	0.042	0.37	0.89	41	835	39	13 165	1 303.0	1987	88 07
64	7.80	0.040	0.28	0.89	41	842	39	13 423	1 470.0	1987	88 02
64	6.00	0.050	0.27	0.89	41	842	39	13 820	1 466.9	1987	88 02
64	5.50	0.050	0.32	0.88	32	824	39	14 161	1 503.4	1987	88 04
64	6.00	0.050	0.33	0.91	32	833	39	14 230	1 525.0	1987	88 05
64	3.40	0.075	0.25	0.89	32	819	35	14 611	1 468.4	1987	88 06 - SUSP 89 05
64	4.80	0.058	0.27	0.89	41	820	39	14 260	1 472.3	1987	88 06 - SUSP 89 02
64	10.50	0.040	0.21	0.91	32	824	39	13 835	1 396.6	1988	88 07
64	5.40	0.045	0.30	0.88	47	829	36	14 205	1 299.6	1988	88 07
64	5.70	0.060	0.37	0.91	32	824	39	12 949	1 296.0	1988	88 07
64	7.25	0.049	0.32	0.91	32	824	39	14 558	1 467.5	1987	88 07
64	6.26	0.061	0.33	0.91	32	824	39	14 512	1 509.7	1987	88 07
64	6.00	0.047	0.26	0.89	41	820	39	14 102	1 332.2	1987	88 08
64	14.90	0.068	0.25	0.88	43	819	39	13 868	1 479.9	1988	88 08
128	8.17	0.050	0.26	0.91	32	824	39	14 071	1 298.3	1988	88 12
64	4.18	0.050	0.27	0.89	41	820	39	13 972	1 513.7	1988	88 12
64	6.00	0.054	0.32	0.88	43	810	39		1 305.8	1988	89 01
64	8.45	0.077	0.24	0.88	43	879	39		1 480.6	1988	89 01
64	4.80	0.056	0.39	0.88	43	810	39		1 317.5	1988	88 08
64	1.81	0.053	0.22	0.90	32	824	39		1 480.7	1988	89 05
64	4.07	0.050	0.30	0.88	43	819	39		1 328.9	1988	89 06
64	2.40	0.074	0.35	0.88	47	829	40		1 313.9	1988	89 08
64	2.10	0.084	0.30	0.88	47	829	40	12 950	1 299.0	1988	89 08
244	1.16	0.190	0.35	0.91	38	849	27	5 582	783.3	1958	75 12 - GPP
32	1.22	0.250	0.50	0.91	39	849	28	5 630	788.2	1971	83 12 - SUSP 89 09
32	1.30	0.150	0.50	0.91	39	887	37	5 020	788.5	1971	79 06 - SUSP 85 01
64	1.50	0.160	0.50	0.91	39	854	34	6 220	817.3	1979	79 10 - SUSP 85 02
160	2.15	0.210	0.41	0.91	26	851	36	4 315	795.5	1981	84 11
151	5.93	0.268	0.14	0.92	39	860	34	6 100	949.3	1979	87 12
112	5.91	0.264	0.12	0.92	39	910	34	6 250	947.1	1982	87 09
64	9.23	0.050	0.23	0.91	31	829	46	15 523	1 533.9	1985	87 12
192	4.50	0.070	0.25	0.90	33	835	45	16 113	1 504.5	1982	86 03
64	7.19	0.098	0.17	0.89	35	836	44	15 981	1 533.2	1984	84 08
64	3.00	0.045	0.30	0.91	30	833	38	15 415	1 538.5	1980	81 02
64	8.80	0.045	0.42	0.91	32	857	38	15 522	1 478.3	1982	88 12 - SUSP 86 03
64	3.90	0.070	0.35	0.91	32	837	38	15 983	1 532.3	1980	87 12
64	1.52	0.065	0.39	0.90	33	794	40	15 335	1 529.5	1987	88 12
64	3.20	0.035	0.38	0.90	38	834	27	15 019	1 484.3	1986	86 05
64	1.40	0.160	0.27	0.80	76	832	54	15 726	1 562.7	1983	84 06
64	2.50	0.150	0.44	0.90	31	837	43	16 073	1 563.5	1986	87 02
128	2.28	0.210	0.27	0.96	10	835	32	9 268	895.5	1956	87 03 - GPP
65	2.44	0.250	0.20	0.88	42	829	28	6 840	831.8	1966	83 12 - SUSP 76 02
130	1.52	0.250	0.20	0.96	18	844	34	6 030	814.4	1972	73 12 - GPP
64	3.70	0.200	0.45	0.88	51	830	29	6 500	810.9	1975	83 12 - GPP
64	3.93	0.200	0.35	0.95	19	839	28	6 296	910.7	1987	89 01 - SUSP 89 01
64	2.87	0.170	0.30	0.70	120	821	76	8 369	2 116.9	1981	88 06 - SUSP 88 11
64	1.50	0.180	0.10	0.73	120	827	76	26 793	2 292.3	1987	88 07
64	1.70	0.165	0.15	0.77	100	829	73	17 022	2 316.2	1987	88 09
64	7.99	0.084	0.35	0.69	149	807	64	21 668	2 201.7	1982	88 03 - SUSP 89 01
64	2.10	0.100	0.16	0.77	100	829	73	21 245	1 899.3	1987	88 03 - SUSP 87 12
128	1.81	0.150	0.15	0.75	126	825	74	21 407	1 927.0	1959	88 03 - GPP
64	0.50	0.055	0.13	0.71	129	798	73		1 954.8	1988	89 01
64	6.18	0.060	0.32	0.70	106	819	70	16 526	1 992.8	1958	78 12 - GPP
64	4.20	0.055	0.30	0.73	105	810	73	16 478	1 984.3	1982	85 03 - GPP
128	3.05	0.076	0.15	0.70	143	822	67	17 025	1 972.2	1982	85 03 - GPP
128	4.70	0.100	0.26	0.73	110	825	74	18 164	2 063.3	1986	89 04
64	5.60	0.060	0.17	0.70	143	823	67	18 170	2 057.3	1988	88 07

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
LACOMBE 039-25W4 (CONTINUED)								
NISKU F	165.0	0.10		16.5		16.5	0.1	16.4
LANAWAY 036-03W5								
CARDIUM	2 920.0	0.10		292.0		292.0	199.6	92.4
CARDIUM B	292.0	<0.01		0.6		0.6	0.6	
CARDIUM C	732.0	0.05		36.6		36.6	31.0	5.6
CARDIUM D	92.9	0.10		9.3		9.3	3.0	6.3
CARDIUM E	47.9	0.10		4.8		4.8	1.3	3.5
SECOND WHITE	334.0	0.04		13.4		13.4	11.4	2.0
SPECKS A								
VIKING B	98.8	0.10		9.9		9.9	4.9	5.0
MANNVILLE	3 500.0	0.10		350.0		350.0	216.2	133.8
MANNVILLE B	320.0	0.05		16.0		16.0	6.4	9.6
MANNVILLE C	23.0	<0.02		0.3		0.3	0.3	
MANNVILLE D	145.0	0.10		14.5		14.5	9.5	5.0
MANNVILLE E	391.0	<0.01		1.3		1.3	1.3	
MANNVILLE F	223.0	<0.01		0.3		0.3	0.3	
MANNVILLE G	108.0	0.10		10.8		10.8	3.0	7.8
GLAUCONITIC A & BASAL QUARTZ A	229.0	<0.01		1.0		1.0	1.0	
ELKTON A	1 200.0	0.03		36.0		36.0	10.2	25.8
PEKISKO A	101.0	0.10		10.1		10.1	2.7	7.4
D-2 A	243.0	0.20		48.6		48.6	18.9	29.7
D-3 A	245.0	<0.01		2.4		2.4	2.4	
LARNE 116-03W6								
MUSKEG B	144.0	<0.07		9.1		9.1	9.1	
KEG RIVER A	350.0	0.20		70.0		70.0	19.1	50.9
KEG RIVER B	340.0	0.10		34.0		34.0	24.0	10.0
KEG RIVER C	718.0	<0.07		46.1		46.1	46.1	
KEG RIVER D	397.0	0.20		79.4		79.4	62.8	16.6
KEG RIVER E	338.0	0.20		67.7		67.7	52.2	15.5
KEG RIVER F	127.0	<0.09		10.7		10.7	10.7	
KEG RIVER G	284.0	0.20		56.8		56.8	43.6	13.2
KEG RIVER H	413.0	<0.03		11.8		11.8	11.8	
KEG RIVER I	478.0	<0.05		19.6		19.6	19.6	
KEG RIVER J	510.0	<0.02		7.7		7.7	7.7	
KEG RIVER K	397.0	0.15		59.6		59.6	53.6	6.0
KEG RIVER L	292.0	<0.04		9.4		9.4	9.4	
KEG RIVER M	280.0	<0.03		8.0		8.0	8.0	
KEG RIVER N	238.0	<0.07		14.5		14.5	14.5	
KEG RIVER O	143.0	<0.19		26.9		26.9	26.9	
KEG RIVER P	346.0	<0.05		13.9		13.9	13.9	
KEG RIVER Q	159.0	<0.07		10.6		10.6	10.6	
KEG RIVER R	159.0	<0.19		30.2		30.2	30.2	
KEG RIVER S	600.0	0.03		18.0		18.0	12.6	5.4
KEG RIVER T	1 100.0	<0.01		2.9		2.9	2.9	
KEG RIVER U	168.0	<0.04		5.2		5.2	5.2	
KEG RIVER V	420.0	0.10		42.0		42.0	12.2	29.8
KEG RIVER W	272.0	0.15		40.8		40.8	3.4	37.4
KEG RIVER X	79.3	<0.06		4.5		4.5	4.5	
KEG RIVER Y	372.0	<0.01		2.3		2.3	2.3	
KEG RIVER Z	160.0	0.10		16.0		16.0	3.9	12.1
KEG RIVER AA	100.0	0.25		25.0		25.0	1.7	23.3
KEG RIVER BB	80.0	0.05		4.0		4.0	2.9	1.1
KEG RIVER CC	120.0	0.25		30.0		30.0	10.2	19.8
KEG RIVER DD	235.0	0.25		58.8		58.8	7.5	51.3
KEG RIVER EE	190.0	0.25		47.5		47.5	10.8	36.7
KEG RIVER FF	70.0	0.25		17.5		17.5	2.7	14.8
KEG RIVER GG	86.8	0.25		21.7		21.7	4.1	17.6
KEG RIVER HH	150.0	0.25		37.5		37.5	13.1	24.4
KEG RIVER II	206.0	<0.01		1.2		1.2	1.2	
KEG RIVER JJ	74.4	0.10		7.4		7.4	4.5	2.9
KEG RIVER KK	110.0	0.25		27.5		27.5	3.6	23.9
KEG RIVER LL	641.0	0.10		64.1		64.1	12.0	52.1
KEG RIVER MM	212.0	0.15		31.8		31.8	2.8	29.0
KEG RIVER NN	418.0	0.15		62.7		62.7	2.7	60.0
LATOR 063-02W6								
DUNVEGAN A	1 540.0	0.10		154.0		154.0	129.1	24.9
DUNVEGAN B	184.0	0.10		18.4		18.4	0.4	18.0

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	5.00	0.090	0.18	0.70	130	810	77		2 052.4	1988	89 03
1 869	2.35	0.110	0.28	0.84	53	825	54	15 314	1 807.5	1960	82 07
129	3.66	0.090	0.22	0.88	53	839	54	21 406	1 773.6	1973	73 12 - ABAND 73 11
256	4.30	0.110	0.28	0.84	53	825	54	20 430	1 776.9	1960	86 12
128	1.00	0.120	0.28	0.84	52	841	58	21 777	1 819.5	1984	86 01
64	1.80	0.080	0.35	0.80	89	822	59	23 123	1 820.8	1982	83 11 - SUSP 89 12
65	8.53	0.120	0.30	0.72	89	865	59	21 900	1 860.0	1977	83 12 - SUSP 88 01
64	2.80	0.105	0.30	0.75	100	833	63	9 081	1 947.4	1987	88 03
840	6.60	0.110	0.25	0.76	71	876	60	16 690	2 274.9	1959	83 11
64	6.80	0.124	0.22	0.76	76	853	76	18 783	2 320.5	1981	84 01
64	1.00	0.090	0.50	0.80	88	853	64	10 266	2 298.5	1981	82 06 - ABAND 86 12
64	3.70	0.120	0.25	0.68	134	861	72	18 653	2 294.2	1981	83 03
64	15.90	0.100	0.52	0.80	100	892	66	18 420	2 356.3	1982	84 12 - ABAND 88 09
64	6.00	0.150	0.43	0.68	152	843	82	16 123	2 237.8	1980	84 07 - SUSP 83 04
64	2.10	0.125	0.20	0.80	93	880	45	18 629	2 291.2	1986	87 04
128	4.07	0.090	0.39	0.80	82	874	60	16 680	2 229.0	1979	82 05 - SUSP 85 02
261	7.00	0.120	0.27	0.75	103	904	74	18 150	2 395.8	1974	88 01 - SUSP 89 09
64	5.26	0.060	0.35	0.77	99	876	64	17 499	2 267.3	1977	84 03 - SUSP 88 09
64	10.70	0.055	0.14	0.75	95	810	75	23 760	2 866.2	1985	86 07
65	7.92	0.100	0.15	0.56	261	788	82	24 240	2 923.3	1964	73 02 - SUSP 72 09
35	17.68	0.040	0.35	0.90	35	898	64	13 650	1 407.3	1973	80 11 - ABAND 88 12
12	51.90	0.078	0.20	0.90	22	887	69	13 470	1 429.8	1969	86 02
17	37.45	0.075	0.20	0.89	37	898	61	13 460	1 415.8	1968	83 12 - GPP
16	60.96	0.092	0.10	0.88	46	898	61	13 710	1 427.1	1968	89 12 - SUSP 87 07
9	72.10	0.089	0.21	0.87	38	876	70	13 800	1 467.3	1968	83 01
17	39.93	0.071	0.20	0.88	31	876	72	13 470	1 425.2	1969	73 12 - SUSP 88 12
21	29.75	0.032	0.30	0.89	37	892	61	12 890	1 399.6	1969	88 12 - SUSP 88 12
13	47.61	0.061	0.15	0.89	35	898	63	13 410	1 410.3	1969	83 12
14	56.93	0.071	0.18	0.89	27	887	62	13 090	1 417.6	1971	88 12 - SUSP 85 01
13	47.37	0.098	0.10	0.88	39	881	62	13 070	1 409.1	1971	81 12 - ABAND 82 02
15	41.04	0.107	0.13	0.89	35	887	61	12 450	1 421.3	1971	83 12 - SUSP 80 02
13	48.62	0.083	0.18	0.90	35	887	61	13 310	1 408.2	1972	85 12 - GPP
11	58.61	0.066	0.22	0.88	43	887	50	13 130	1 444.4	1971	86 12 - SUSP 85 01
12	38.60	0.084	0.18	0.88	35	892	64	13 170	1 413.7	1972	84 12 - SUSP 85 11
27	22.77	0.055	0.20	0.88	33	892	54	14 320	1 397.2	1972	81 12 - SUSP 80 04
7	40.14	0.064	0.15	0.90	31	904	64	14 820	1 406.7	1971	86 12 - SUSP 85 03
16	38.10	0.078	0.20	0.90	35	910	70	13 360	1 410.6	1972	80 11 - ABAND 88 12
14	17.98	0.078	0.11	0.90	27	904	63	13 560	1 411.8	1971	81 12 - ABAND 82 02
25	18.17	0.049	0.20	0.89	45	881	62	13 830	1 413.4	1969	88 12 - SUSP 85 01
28	57.33	0.070	0.40	0.89	22	869	80	13 622	1 445.5	1982	88 07
64	43.50	0.060	0.25	0.88	38	920	61	13 566	1 416.5	1983	88 12 - ABAND 86 12
19	23.10	0.050	0.13	0.88	38	909	61	12 887	1 408.5	1983	88 12 - SUSP 86 05
11	51.70	0.114	0.25	0.88	38	894	61	12 615	1 408.3	1983	85 12 - GPP
14	25.10	0.100	0.12	0.88	47	919	62	13 241	1 408.9	1984	85 06 - SUSP 87 11
12	19.50	0.050	0.23	0.88	43	884	48	13 026	1 415.4	1972	85 12 - SUSP 86 05
64	11.00	0.075	0.20	0.88	32	889	72	13 306	1 426.5	1985	89 12 - SUSP 87 07
14	28.01	0.060	0.20	0.85	54	880	59	13 323	1 445.8	1985	87 01
16	18.14	0.045	0.13	0.88	35	900	54	12 653	1 401.2	1985	86 02
16	19.00	0.040	0.25	0.88	35	917	57	12 796	1 407.5	1985	89 12
13	17.63	0.070	0.15	0.88	37	894	62	13 474	1 431.3	1985	87 12
14	29.77	0.072	0.11	0.88	35	898	79	12 430	1 395.0	1985	87 01
32	19.84	0.040	0.15	0.88	32	878	65	13 527	1 418.0	1985	87 01
13	16.00	0.045	0.15	0.88	35	804	63	13 125	1 407.0	1985	86 05
41	14.88	0.021	0.23	0.88	35	907	63	12 815	1 407.5	1985	86 07
30	20.21	0.037	0.24	0.88	35	892	63	12 896	1 400.8	1986	87 01
64	30.00	0.020	0.39	0.88	35	891	63	13 618	1 409.0	1986	89 12 - SUSP 86 01
16	16.51	0.040	0.20	0.88	35	899	63	13 044	1 400.3	1986	89 12
64	12.00	0.025	0.35	0.88	35	881	77	13 234	1 416.0	1986	86 09
16	81.70	0.064	0.13	0.88	47	893	62	14 764	1 461.4	1987	89 12
64	17.30	0.029	0.25	0.88	47	27	62	13 533	1 432.6	1987	88 05
64	17.00	0.056	0.22	0.88	47	27	62	13 415	1 426.1	1987	88 05
612	2.83	0.174	0.30	0.73	119	829	67	22 830	2 162.0	1957	71 04
64	6.73	0.091	0.30	0.67	200	830	82	24 470	2 401.7	1979	80 06

TABLE 2-4

FIELD POOL	1 INITIAL VOLUME IN PLACE 10 ³ m ³	3 RECOVERY		5 INITIAL ESTABLISHED RESERVES			7 CUMULATIVE PRODUCTION 10 ³ m ³	8 REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY frac	ENHANCED frac	PRIMARY 10 ³ m ³	ENHANCED 10 ³ m ³	TOTAL 10 ³ m ³		
LATORNELL 063-01W6 DUNVEGAN A	1 310.0	<0.01		1.3		1.3	1.3	
LEAHURST 039-18W4								
VIKING E	293.0	<0.01		0.1		0.1	0.1	
MANNVILLE C	70.9	<0.02		1.0		1.0	1.0	
MANNVILLE M	153.0	0.10		15.3		15.3	3.5	11.8
BASAL QUARTZ A	110.0	0.05		5.5		5.5	1.6	3.9
BASAL QUARTZ B	45.9	<0.01		0.2		0.2	0.2	
BASAL QUARTZ C	137.0	<0.01		1.2		1.2	1.2	
BASAL QUARTZ E	188.0	0.10		18.8		18.8	0.2	18.6
LEAMAN 055-12W5								
LOWER MANNVILLE G	359.0	0.10		35.9		35.9	18.4	17.5
LOWER MANNVILLE M	152.0	0.10		15.2		15.2	4.2	11.0
ROCK CREEK A	134.0	0.10		13.4		13.4	2.1	11.3
NORDEGG A	383.0	<0.01		0.8		0.8	0.8	
NORDEGG C	1 600.0	0.15		240.0		240.0	43.5	196.5
LEDUC-WOODBEND 050-26W4								
BLAIRMORE A	1 450.0	0.20		290.0		290.0	279.2	10.8
BLAIRMORE B	27.3	<0.08		2.1		2.1	2.1	
BLAIRMORE C	63.1	<0.01		0.1		0.1	0.1	
BLAIRMORE D	404.0	<0.03		9.8		9.8	9.8	
BLAIRMORE E	605.0	<0.04		23.3		23.3	23.3	
BLAIRMORE G	130.0	<0.01		0.7		0.7	0.7	
BLAIRMORE H	37.8	<0.02		0.4		0.4	0.4	
BLAIRMORE J	1 330.0	0.47		625.0		625.0	591.2	33.8
BLAIRMORE K	307.0	<0.14		41.9		41.9	41.9	
BLAIRMORE O	403.0	0.05		20.2		20.2	4.7	15.5
BLAIRMORE CC	256.0	0.02		5.1		5.1	1.0	4.1
BLAIRMORE GG	145.0	<0.01		0.2		0.2	0.2	
BLAIRMORE KK	248.0	<0.01		1.5		1.5	1.5	
BLAIRMORE NN	496.0	0.05		24.8		24.8	1.9	22.9
BLAIRMORE QQ	191.0	0.10		19.1		19.1	1.5	17.6
GLAUCONITIC A	305.0	0.03		9.2		9.2	1.6	7.6
D-1 A	159.0	<0.03		4.0		4.0	4.0	
D-1 B	54.7	<0.18		9.8		9.8	9.8	
D-2 A WATER FLOOD	32 700.0	<0.34	0.10	10 900.0	3 270.0	14 200.0	14 148.7	51.3
D-2 B	12 500.0	0.27		3 380.0		3 380.0	3 268.9	111.1
D-2 C	413.0	0.54		223.0		223.0	216.3	6.7
D-2 D	99.5	0.60		59.7		59.7	55.7	4.0
D-2 E	192.0	0.63		121.0		121.0	117.9	3.1
D-2 F	318.0	0.20		63.6		63.6	54.7	8.9
D-3 A WATER FLOOD	61 200.0	0.55	0.10	33 700.0	6 120.0	39 800.0	39 289.8	510.2
D-3 B	2 380.0	0.52		1 238.0		1 238.0	1 192.5	45.5
D-3 C	144.0	0.51		73.7		73.7	73.7	
D-3 D	113.0	0.39		44.3		44.3	44.3	
D-3 E	403.0	0.10		40.3		40.3	30.5	9.8
D-3 F	1 030.0	0.70		721.0		721.0	568.3	152.7
D-3 G	153.0	0.30		45.9		45.9	18.5	27.4
D-3 H	105.0	<0.04		3.8		3.8	3.8	
D-3 I	235.0	0.50		118.0		118.0	7.5	110.5
D-3 J	180.0	0.40		72.0		72.0	16.5	55.5
D-3 K	84.3	<0.01		0.3		0.3	0.3	
D-3 L	72.5	<0.01		0.6		0.6	0.6	
D-3 M	213.0	<0.01		0.1		0.1		0.1
LEGAL 057-25W4								
MIDDLE VIKING A	434.0	0.50		217.0		217.0	205.2	11.8
MANNVILLE B	38.1	<0.03		1.0		1.0	1.0	
D-3 A	32.4	<0.01		0.1		0.1	0.1	
LELAND 059-25W5								
CARDIUM A	102.0	<0.01		0.5		0.5	0.5	
SECOND WHITE	164.0	<0.01		0.1		0.1	0.1	
SPECKS A								
SECOND WHITE	113.0	<0.01		0.7		0.7	0.7	
SPECKS B								
LED 036-17W4 UPPER MANNVILLE A	772.0	0.10		77.2		77.2	26.6	50.6

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
192	10.54	0.125	0.30	0.74	119	830	67	12 172	1 934.1	1985	86 05 - SUSP 86 04
64	7.40	0.125	0.45	0.90	35	876	43	6 545	1 100.9	1982	88 12 - SUSP 83 01
64	0.92	0.210	0.40	0.95	18	892	44	10 480	1 262.8	1974	84 12 - SUSP 84 01
64	2.70	0.150	0.38	0.95	16	877	39	10 581	1 284.0	1982	82 12
64	2.50	0.150	0.46	0.85	57	897	55	10 726	1 299.7	1978	84 12
64	1.10	0.150	0.45	0.79	88	860	55	10 575	1 303.9	1979	84 12 - SUSP 84 12
64	2.40	0.150	0.30	0.85	66	873	46	9 335	1 235.2	1980	80 12 - SUSP 84 07
64	3.50	0.145	0.32	0.85	58	868	43	8 700	1 260.2	1986	86 10 - SUSP 89 01
192	2.94	0.122	0.34	0.79	87	886	71	16 139	1 877.6	1981	85 09
32	9.60	0.180	0.68	0.86	52	927	61	12 169	1 645.6	1985	85 10 - SUSP 89 03
64	3.85	0.122	0.45	0.81	74	865	74	12 688	1 791.9	1986	87 03 - SUSP 87 10
64	11.90	0.117	0.50	0.86	65	878	50	12 501	1 614.9	1981	89 12 - SUSP 85 07
460	5.32	0.160	0.53	0.87	52	923	57	12 239	1 618.3	1985	88 09
338	3.90	0.183	0.23	0.78	94	834	57	9 790	1 305.2	1951	81 12 - GPP
16	1.86	0.150	0.25	0.81	93	834	57	9 650	1 297.8	1954	71 12 - ABAND 62 06
16	4.57	0.150	0.28	0.79	93	825	58	10 170	1 316.7	1954	62 05 - ABAND 56 08
69	8.23	0.150	0.45	0.86	53	887	57	10 340	1 376.2	1952	74 04 - ABAND 74 03
65	10.97	0.150	0.28	0.79	98	825	60	10 240	1 347.8	1952	62 10 - SUSP 85 01
16	9.45	0.150	0.28	0.79	93	825	59	10 240	1 358.5	1953	68 03 - ABAND 54 11
16	2.74	0.150	0.28	0.79	93	825	56	9 760	1 278.6	1950	68 03 - ABAND 51 05
256	4.15	0.200	0.20	0.78	93	825	54	9 650	1 287.5	1948	86 12 - GPP
119	3.05	0.143	0.28	0.82	98	825	62	10 340	1 334.7	1951	82 12 - SUSP 84 10
64	6.00	0.190	0.30	0.79	83	826	54		1 300.0	1948	88 12
64	4.60	0.150	0.28	0.80	98	825	60	10 124	1 317.0	1953	79 12 - GPP
64	2.40	0.220	0.45	0.78	98	850	60	9 208	1 292.6	1980	80 12 - SUSP 80 11
64	4.00	0.220	0.45	0.80	83	827	54	9 460	1 304.3	1983	83 11 - SUSP 84 06
64	7.00	0.200	0.30	0.79	83	974	42	9 622	1 356.2	1949	86 11
64	3.00	0.180	0.30	0.79	83	827	45	9 429	1 284.7	1987	88 10
64	4.60	0.180	0.36	0.90	33	840	45	9 117	1 306.5	1985	89 12
65	5.39	0.074	0.25	0.82	71	820	58	9 890	1 366.1	1963	75 12 - SUSP 75 03
98	0.91	0.100	0.25	0.82	74	820	54	10 310	1 382.3	1964	68 03 - SUSP 73 05
9 169	18.90	0.034	0.26	0.75	115	834	63	12 200	1 555.4	1947	83 12 - GPP
4 641	11.33	0.048	0.34	0.75	98	834	60	12 650	1 603.9	1950	85 05 - GPP
309	5.18	0.043	0.20	0.75	110	834	62	12 200	1 660.2	1950	87 12 - GPP
110	8.08	0.020	0.30	0.80	109	834	63	12 200	1 660.2	1951	88 12 - GPP
128	9.02	0.028	0.30	0.85	109	834	62	12 200	1 593.2	1950	81 12 - GPP
199	8.29	0.033	0.24	0.77	111	834	64	13 070	1 653.5	1964	77 12 - GPP
8 812	10.77	0.100	0.14	0.75	98	825	66	13 070	1 620.0	1947	85 12 - GPP
751	7.99	0.060	0.13	0.76	85	825	66	13 070	1 653.5	1948	88 12 - GPP
53	5.18	0.080	0.13	0.76	85	825	67	13 070	1 649.6	1950	71 12 - ABAND 71 10
24	8.84	0.080	0.13	0.76	85	825	67	13 070	1 590.1	1949	72 05 - ABAND 66 01
65	10.67	0.090	0.14	0.75	85	825	48	11 620	1 634.6	1967	83 12 - GPP
81	20.91	0.093	0.10	0.73	94	825	61	11 710	1 658.1	1968	76 02 - GPP
65	4.27	0.090	0.19	0.76	103	839	66	11 790	1 702.9	1974	75 11 - GPP
64	4.00	0.065	0.17	0.76	99	847	74	13 000	1 659.2	1984	86 03 - SUSP 86 12
64	5.50	0.100	0.12	0.76	98	833	66	11 356	1 653.3	1985	85 11 - GPP
64	7.00	0.066	0.20	0.76	99	848	54	11 820	1 690.5	1985	86 03
64	1.70	0.120	0.15	0.76	94	812	67	11 598	1 687.2	1985	86 06 - ABAND 88 05
64	2.30	0.090	0.28	0.76	94	826	63	11 757	1 706.2	1985	86 06 - ABAND 88 05
64	6.30	0.080	0.13	0.76	94	838	63	11 166	1 648.9	1985	89 12 - SUSP 86 09
233	1.50	0.180	0.25	0.92	36	876	36	5 860	853.7	1952	87 12 - GPP
16	1.83	0.190	0.25	0.89	30	876	43	6 900	1 070.5	1950	68 03 - ABAND 66 06
16	3.20	0.090	0.12	0.80	55	946	44	11 365	1 458.3	1984	85 02 - ABAND 86 11
64	3.00	0.100	0.23	0.69	150	822	71	21 020	2 209.2	1980	88 12 - SUSP 86 06
64	5.00	0.120	0.38	0.69	140	823	80	23 352	2 496.5	1980	89 12 - SUSP 86 01
64	3.00	0.120	0.29	0.69	140	823	80	22 830	2 432.0	1980	85 02 - SUSP 86 02
149	4.36	0.200	0.34	0.90	37	855	39	8 203	1 153.2	1983	88 02

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE 10 ³ m ³	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION 10 ³ m ³	REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY frac	ENHANCED frac	PRIMARY 10 ³ m ³	ENHANCED 10 ³ m ³	TOTAL 10 ³ m ³		
LED 036-17W4 (CONTINUED)								
UPPER MANNVILLE C	333.0	0.05		16.7		16.7	4.3	12.4
UPPER MANNVILLE D	163.0	0.10		16.3		16.3	8.7	7.6
UPPER MANNVILLE E	481.0	0.03		14.4		14.4	2.5	11.9
UPPER MANNVILLE F	442.0	0.03		13.3		13.3	4.0	9.3
UPPER MANNVILLE H	207.0	0.10		20.7		20.7	1.5	19.2
UPPER MANNVILLE J	127.0	0.05		6.4		6.4	0.9	5.5
LESSARD 124-17W5								
KEG RIVER A	161.0	0.30		48.3		48.3	12.6	35.7
KEG RIVER B	555.0	0.01		5.6		5.6	5.6	
KEG RIVER C	165.0	0.30		49.5		49.5	9.8	39.7
LITTLE HORSE 077-12W5								
SLAVE POINT A	79.7	<0.01		0.2		0.2	0.2	
GILWOOD A	138.0	0.20		27.6		27.6	2.2	25.4
GILWOOD B	120.0	<0.01		0.1		0.1	0.1	
GILWOOD C	139.0	0.30		42.0		42.0	4.7	37.3
GILWOOD D	224.0	0.25		56.0		56.0	9.8	46.2
GILWOOD E	152.0	0.25		38.0		38.0	8.3	29.7
GILWOOD F	82.6	0.15		10.7		10.7	0.4	10.3
LITTLE SMOKY 067-22W5 D-3	397.0	0.50		199.0		199.0	179.9	19.1
LOCHEND 027-03W5								
CARDIUM A	11 300.0	0.08		904.0		904.0	492.1	411.9
CARDIUM C	1 000.0	0.01		10.0		10.0	3.5	6.5
CARDIUM D	57.0	0.10		5.7		5.7	0.4	5.3
CARDIUM E	350.0	0.01		3.5		3.5	2.2	1.3
CARDIUM F	36.0	0.03		1.1		1.1	0.7	0.4
CARDIUM G	150.0	0.10		15.0		15.0	2.4	12.6
CARDIUM H	141.0	0.10		14.1		14.1	4.5	9.6
CARDIUM I	58.6	0.15		8.8		8.8	5.0	3.8
CARDIUM J	122.0	0.10		12.2		12.2	1.8	10.4
CARDIUM K	219.0	0.05		11.0		11.0	1.0	10.0
CARDIUM L	78.8	0.10		7.9		7.9	2.8	5.1
CARDIUM M	96.3	0.10		9.6		9.6	4.8	4.8
VIKING A	461.0	<0.01		2.0		2.0	2.0	
LOMOND 018-23W4								
GLAUCONITIC A	116.0	0.10		11.6		11.6	0.8	10.8
ELLERSLIE A	67.1	<0.02		0.8		0.8	0.8	
ELLERSLIE B	101.0	<0.01		0.4		0.4	0.4	
ELLERSLIE C	82.5	<0.01		0.1		0.1	0.1	
SAWTOOTH A	154.0	<0.03		4.3		4.3	4.3	
LONE PINE CREEK 030-28W4								
D-2 A	500.0	0.20		100.0		100.0	59.5	40.5
D-3 A	2 350.0	<0.02		29.2		29.2	29.1	0.1
LONG COULEE 016-21W4								
GLAUCONITIC A	182.0	0.05		9.1		9.1	4.5	4.6
GLAUCONITIC B	236.0	0.02		4.7		4.7	2.5	2.2
GLAUCONITIC E	61.3	<0.02		0.7		0.7	0.7	
GLAUCONITIC F	404.0	0.10		40.4		40.4	9.9	30.5
GLAUCONITIC G	118.0	0.10		11.8		11.8	6.3	5.5
GLAUCONITIC H	807.0	0.10		80.7		80.7	32.1	48.6
GLAUCONITIC J	415.0	0.15		62.3		62.3	30.8	31.5
GLAUCONITIC N	106.0	<0.02		1.1		1.1	1.1	
GLAUCONITIC Q	97.7	0.10		9.8		9.8	2.0	7.8
GLAUCONITIC R	543.0	0.10		54.3		54.3	18.8	35.5
GLAUCONITIC T	474.0	0.20		94.8		94.8	19.0	75.8
GLAUCONITIC U	190.0	0.10		19.0		19.0	3.9	15.1
SUNBURST C	265.0	<0.01		1.3		1.3	1.3	
SUNBURST E	161.0	<0.01		1.1		1.1	1.1	
SUNBURST F	301.0	0.10		30.1		30.1	1.9	28.2
SUNBURST H	106.0	0.10		10.6		10.6	2.2	8.4
ELLERSLIE A	194.0	0.10		19.4		19.4	3.2	16.2

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
128	3.08	0.160	0.40	0.88	51	855	35	6 664	1 164.3	1975	87 07 - GPP
64	1.80	0.220	0.27	0.88	53	844	40	7 983	1 155.8	1977	83 12
64	7.92	0.154	0.30	0.88	45	865	40	7 164	1 141.7	1978	85 12 - GPP
64	6.70	0.156	0.25	0.88	43	855	28	7 960	1 146.4	1974	79 12
32	4.00	0.240	0.26	0.91	33	869	39	7 588	1 148.0	1987	88 09
64	1.60	0.220	0.38	0.91	33	870	39		1 154.2	1988	89 06
64	7.00	0.050	0.19	0.89	32	895	56	9 824	997.6	1974	86 12
64	42.80	0.030	0.25	0.90	32	889	50	10 132	1 033.4	1984	84 07 - SUSP 87 06
64	52.00	0.010	0.43	0.87	42	880	60	6 700	1 016.0	1985	86 05
64	1.30	0.150	0.29	0.90	30	839	57	17 720	1 893.9	1985	89 12 - SUSP 87 03
64	2.73	0.126	0.27	0.86	69	828	65	20 341	2 038.6	1987	87 09
64	3.90	0.127	0.56	0.86	50	840	61	21 007	2 118.2	1987	89 12 - SUSP 87 03
64	3.80	0.113	0.41	0.86	42	831	63	19 939	1 999.4	1986	87 09
64	3.80	0.167	0.38	0.89	30	835	73	20 470	1 040.6	1987	87 12
64	2.70	0.165	0.40	0.89	30	824	64	20 566	2 048.3	1987	88 08
64	1.80	0.130	0.38	0.89	45	849	56	19 184	1 975.3	1988	88 12 - SUSP 89 07
97	12.44	0.068	0.18	0.59	205	825	90	27 790	2 660.9	1954	76 12 - GPP
9 984	1.65	0.100	0.10	0.76	109	825	54	25 326	2 244.7	1961	85 09
640	2.22	0.103	0.10	0.76	110	834	52	21 255	2 204.7	1985	85 09
64	2.00	0.100	0.45	0.81	119	834	68	20 365	2 103.8	1983	84 11
128	4.00	0.100	0.10	0.76	110	834	52	25 300	2 204.7	1983	85 09
64	1.32	0.062	0.10	0.76	110	834	52	20 287	2 204.7	1985	85 09
64	3.30	0.110	0.15	0.76	110	848	58	21 537	2 349.7	1981	82 03
64	3.10	0.110	0.10	0.72	125	824	68	18 678	2 221.6	1980	87 04
64	1.30	0.109	0.15	0.76	115	824	57	18 267	2 223.5	1982	89 12
64	3.90	0.080	0.15	0.72	135	824	56	24 978	2 287.7	1983	83 06 - SUSP 89 05
64	5.60	0.090	0.15	0.80	94	827	58	20 466	2 171.0	1986	87 09
64	1.80	0.100	0.10	0.76	109	825	54	25 465	2 197.9	1986	88 01
64	2.20	0.100	0.10	0.76	105	820	56	27 442	2 274.7	1986	86 06
64	12.00	0.110	0.22	0.70	140	831	70	24 298	2 517.1	1981	89 12 - SUSP 87 06
64	1.80	0.180	0.30	0.80	94	857	46	9 810	1 641.0	1985	86 07
64	1.80	0.130	0.44	0.80	95	874	44	14 525	1 599.3	1981	82 09 - SUSP 84 12
64	2.75	0.120	0.40	0.80	81	868	44	14 365	1 631.2	1985	85 12 - ABAND 87 08
64	2.20	0.120	0.39	0.80	81	868	44	14 865	1 696.3	1985	85 11 - ABAND 89 03
64	4.00	0.150	0.50	0.80	85	868	50	13 694	1 691.5	1984	85 03 - ABAND 88 06
497	2.92	0.070	0.22	0.63	155	825	71	22 213	2 373.5	1965	89 04 - GPP
1 616	3.96	0.080	0.15	0.54	237	806	82	22 820	2 441.8	1963	82 12 - GPP
64	3.00	0.180	0.38	0.85	60	900	39	12 647	1 415.2	1982	86 12
64	3.00	0.190	0.19	0.80	96	846	38	11 472	1 404.0	1982	86 12
64	1.10	0.160	0.32	0.80	94	834	46	10 554	1 504.4	1983	84 06 - ABAND 87 07
192	1.85	0.180	0.21	0.80	94	834	46	10 950	1 502.7	1984	89 12
64	2.30	0.150	0.33	0.80	94	854	46	10 332	1 470.2	1982	84 12
320	2.92	0.150	0.28	0.80	94	838	46	12 140	1 454.6	1981	86 04
291	1.74	0.160	0.36	0.80	94	858	46	13 203	1 533.3	1986	89 04
64	2.44	0.150	0.50	0.90	39	829	38	13 410	1 412.4	1977	83 12 - SUSP 81 08
64	1.62	0.172	0.34	0.83	80	848	43	10 753	1 512.2	1983	84 09
256	1.88	0.170	0.21	0.84	66	865	41	11 218	1 482.2	1980	88 11
95	3.90	0.200	0.20	0.80	92	872	38	12 286	1 285.5	1986	88 10
64	3.40	0.180	0.40	0.81	90	853	41	13 418	1 651.8	1981	81 08
65	4.27	0.200	0.40	0.80	83	860	43	13 510	1 451.5	1974	89 12 - SUSP 87 03
64	4.50	0.140	0.50	0.80	95	860	43	13 500	1 484.3	1982	82 07 - ABAND 84 07
64	7.00	0.200	0.60	0.84	68	844	38	13 730	1 517.1	1979	84 05
64	1.52	0.200	0.35	0.84	67	860	45	12 580	1 342.8	1976	77 12 - GPP
64	4.00	0.120	0.70	0.90	168	740	43		1 442.7	1979	80 04

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
LOON 085-09W5								
SLAVE POINT A TOTAL	5 820.0			175.0	111.0	286.0	183.4	102.6
PRIMARY AREA	3 027.0	0.03		90.9		90.9		
WATER FLOOD AREA	2 793.0	0.03	0.04	84.1	111.0	195.0		
SLAVE POINT C	926.0	0.10		92.6		92.6	18.2	74.4
SLAVE POINT D	78.8	0.05		3.9		3.9	2.0	1.9
SLAVE POINT E	508.0	0.02		10.2		10.2	3.5	6.7
SLAVE POINT G	7 272.0	0.10		727.0		727.0	132.1	594.9
GRANITE WASH A	630.0	0.20		126.0		126.0	104.3	21.7
GRANITE WASH B	1 400.0	0.20		280.0		280.0	91.1	188.9
GRANITE WASH C	170.0	0.20		34.0		34.0	18.6	15.4
GRANITE WASH D	194.0	0.20		38.8		38.8	4.1	34.7
GRANITE WASH E	1 864.0	0.25		466.0		466.0	106.1	359.9
GRANITE WASH H	149.0	0.20		29.8		29.8	1.7	28.1
GRANITE WASH I	162.0	0.10		16.2		16.2	1.2	15.0
GRANITE WASH J	758.0	0.25		190.0		190.0	72.9	117.1
GRANITE WASH K	341.0	0.20		68.2		68.2	14.1	54.1
GRANITE WASH L	188.0	0.15		28.2		28.2	2.9	25.3
LOUSANA 036-21W4								
D-2	413.0	0.33		137.0		137.0	122.8	14.2
LUBICON 087-10W5								
GRANITE WASH B	420.0	0.25		105.0		105.0	45.2	59.8
GRANITE WASH C	320.0	0.20		64.0		64.0	45.3	18.7
GRANITE WASH D	236.0	0.05		11.8		11.8	3.9	7.9
MALMO 043-22W4								
BLAIRMORE A	1 270.0	0.15		191.0		191.0	186.9	4.1
ELLERSLIE C	142.0	0.15		21.3		21.3	2.4	18.9
D-2 A	2 570.0	0.45		1 160.0		1 160.0	1 136.3	23.7
D-3 A	1 600.0	0.50		800.0		800.0	753.9	46.1
D-3 C	70.7	<0.02		0.8		0.8	0.8	
D-3 D	480.0	<0.01		1.0		1.0	1.0	
MANIR 072-03W6								
CHARLIE LAKE A	4 065.0	0.15		610.0		610.0	111.7	498.3
CHARLIE LAKE E	271.0	0.15		40.7		40.7		40.7
CHARLIE LAKE F	135.0	<0.01		0.1		0.1	0.1	
CHARLIE LAKE G	173.0	0.10		17.3		17.3	1.8	15.5
CHARLIE LAKE H	159.0	0.15		23.9		23.9	6.9	17.0
MANITO 042-20W4								
GLAUCONITIC A	167.0	<0.01		1.5		1.5	1.5	
ELLERSLIE A,B,C & D	653.0	<0.01		0.4		0.4	0.4	
MANGLA 059-02W5								
LOWER MANNVILLE E	1 639.0	0.10		164.0		164.0	25.4	138.6
LOWER MANNVILLE F	410.0	0.10		41.0		41.0	4.7	36.3
LOWER MANNVILLE H	346.0	0.05		17.3		17.3	1.8	15.5
MANYBERRIES 005-05W4								
GLAUCONITIC A	38.7	0.10		3.9		3.9	0.2	3.7
SUNBURST A	500.0	0.18		90.0		90.0	80.4	9.6
SUNBURST B	1 865.0	0.20		373.0		373.0	240.5	132.5
SUNBURST C	685.0	0.25		171.0		171.0	151.4	19.6
SUNBURST J	281.0	0.10		28.1		28.1	22.3	5.8
SUNBURST L	147.0	<0.02		2.4		2.4	2.4	
SUNBURST O	2 400.0	0.12		288.0		288.0	159.0	129.0
SUNBURST Q	4 000.0	0.15		600.0		600.0	377.8	222.2
SUNBURST U	419.0	0.10		41.9		41.9	29.6	12.3
SUNBURST AA	288.0	0.10		28.8		28.8	4.7	24.1
SUNBURST CC	90.5	0.10		9.1		9.1	0.6	8.5
SUNBURST FF	130.0	0.10		13.0		13.0	0.8	12.2
SUNBURST HH	450.0	0.05		23.0		23.0	3.2	19.8
SUNBURST II	149.0	0.10		14.9		14.9	8.3	6.6
SUNBURST JJ TOTAL	2 200.0			330.0	186.0	516.0	267.8	248.2
PRIMARY AREA	1 040.0	0.15		156.0		156.0		
WATER FLOOD AREA	1 160.0	0.15	0.17	174.0	186.0	360.0		
SUNBURST KK	1 906.0	0.12		229.0		229.0	144.7	84.3
SUNBURST LL	547.0	0.25		137.0		137.0	63.4	73.6
SUNBURST OO	1 700.0	0.15		255.0		255.0	136.7	118.3
SUNBURST RR	97.9	0.10		9.8		9.8	4.7	5.1

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
1 920					24	820	48	15 130	1 415.2	1966	88 01
768	10.72	0.065	0.35	0.87							
1 152	7.55	0.053	0.30	0.87							- GPP
256	9.42	0.064	0.31	0.87	44	820	45	4 700	1 369.6	1984	88 09
64	4.50	0.050	0.37	0.87	45	820	44	13 883	1 372.7	1980	85 03
64	11.40	0.090	0.15	0.91	29	827	44	14 171	1 381.4	1983	87 12
1 813	9.83	0.070	0.33	0.87	44	830	44	14 602	1 320.7	1985	89 06
652	1.25	0.127	0.30	0.87	51	820	77	16 510	1 526.4	1965	87 10
436	3.87	0.160	0.39	0.85	55	828	45	15 905	1 482.9	1982	88 09
128	1.98	0.116	0.32	0.85	51	845	49	16 208	1 571.9	1985	88 12
64	3.40	0.150	0.30	0.85	64	830	42	16 933	1 469.5	1982	83 04
640	3.38	0.157	0.37	0.87	48	835	36	15 314	1 425.0	1985	87 12
64	3.00	0.150	0.40	0.86	51	821	49	16 152	1 538.5	1985	85 10
64	3.00	0.160	0.38	0.85	55	829	48	16 440	1 490.3	1986	87 07
256	3.35	0.154	0.34	0.87	51	825	49	16 560	1 488.5	1966	87 09
64	5.20	0.180	0.33	0.85	55	39	48	15 462	1 472.2	1987	88 05
64	3.00	0.170	0.33	0.86	51	821	49		1 511.0	1988	88 07
203	4.08	0.069	0.14	0.84	55	839	70	14 580	1 787.7	1960	63 10 - GPP
73	4.22	0.220	0.27	0.85	60	834	34	15 477	1 451.0	1968	86 12
60	3.39	0.233	0.21	0.85	60	834	44	15 899	1 440.2	1963	86 12
64	3.00	0.213	0.33	0.86	57	846	37	15 880	1 483.5	1986	89 12
203	4.08	0.252	0.24	0.80	78	825	56	10 170	1 436.5	1952	81 12
64	2.00	0.240	0.45	0.84	69	843	55	9 146	1 401.0	1983	87 12
573	15.30	0.047	0.20	0.78	95	834	57	11 510	1 544.1	1952	86 12 - GPP
220	15.54	0.070	0.12	0.76	111	834	58	14 860	1 609.6	1952	83 12 - GPP
65	2.44	0.067	0.12	0.76	111	829	56	14 860	1 630.4	1965	73 02 - SUSP 69 08
64	16.90	0.074	0.25	0.80	70	886	50	12 493	1 640.9	1979	84 12 - SUSP 84 07
2 100	2.75	0.147	0.43	0.84	56	873	50	15 459	1 690.3	1987	88 07
64	7.33	0.093	0.26	0.84	60	836	47	15 321	1 695.1	1987	88 06
64	3.73	0.110	0.39	0.84	60	825	67	15 961	1 804.2	1987	88 06 - ABAND 88 12
64	2.20	0.190	0.17	0.78	80	839	63	16 019	1 834.9	1985	85 08
64	1.84	0.194	0.13	0.80	76	850	50	15 558	1 818.5	1985	85 09
64	2.80	0.160	0.30	0.83	70	850	41	9 039	1 265.6	1980	81 02 - SUSP 82 07
64	9.20	0.190	0.27	0.80	47	856	42	9 390	1 297.2	1980	83 07 - SUSP 83 12
781	2.63	0.170	0.46	0.87	54	891	37	8 274	1 077.1	1985	88 08
192	2.69	0.180	0.49	0.87	55	891	37	8 322	1 083.6	1984	85 12
64	5.00	0.180	0.31	0.87	54	911	34	8 384	1 066.5	1986	89 12
64	1.00	0.090	0.27	0.92	32	824	33		1 157.5	1987	89 06
192	1.93	0.210	0.30	0.92	66	834	36	9 000	1 122.4	1962	86 07
622	2.52	0.200	0.30	0.85	71	829	61	9 070	1 227.1	1955	89 10
420	1.19	0.250	0.37	0.87	66	839	34	8 990	1 119.2	1967	86 12 - GPP
183	1.12	0.230	0.30	0.85	51	883	37	8 960	1 158.2	1963	84 03
65	1.52	0.270	0.35	0.85	53	855	37	8 950	1 270.4	1972	75 12 - SUSP 75 10
324	6.55	0.200	0.35	0.87	71	839	35	8 960	1 080.5	1971	86 07
684	6.22	0.180	0.40	0.87	57	838	32	99 217	1 079.5	1977	87 08
64	4.00	0.250	0.23	0.85	66	830	36	9 017	1 027.0	1980	81 02
64	6.50	0.140	0.45	0.90	32	824	40	9 625	1 216.5	1984	84 11 - GPP
32	2.10	0.220	0.28	0.85	32	824	33	8 729	1 145.0	1971	84 11 - SUSP 88 01
32	4.69	0.140	0.27	0.85	60	838	33	8 326	1 091.0	1984	89 08 - GPP
128	3.62	0.180	0.38	0.87	50	837	34	9 046	1 076.0	1984	86 11
64	2.00	0.195	0.38	0.96	14	837	35	9 087	1 064.1	1984	85 11
530					28	834	40	9 156	1 115.5	1970	89 10
330	2.64	0.200	0.35	0.92							
200	4.85	0.200	0.35	0.92							
793	2.58	0.170	0.37	0.87	57	839	32	9 046	1 067.7	1970	89 04
257	1.32	0.260	0.32	0.91	66	839	34	9 347	1 169.0	1984	86 12
388	4.66	0.180	0.40	0.87	57	838	32	9 190	1 054.8	1977	87 08
32	3.00	0.200	0.40	0.85	26	844	37		1 224.4	1987	88 03

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
MANYBERRIES 005-05W4 (CONTINUED)								
SUNBURST SS	98.1	0.10		9.8		9.8	7.1	2.7
SUNBURST UU	211.0	0.10		21.1		21.1	0.4	20.7
SUNBURST VV	667.0	0.18		120.0		120.0	19.7	100.3
SUNBURST WW	150.0	0.10		15.0		15.0	2.1	12.9
SUNBURST YY	114.0	0.10		11.4		11.4		11.4
SUNBURST ZZ	430.0	0.05		21.5		21.5	1.2	20.3
SWIFT B	666.0	0.15		99.9		99.9	22.2	77.7
MARKERVILLE 036-02W5								
VIKING A	100.0	0.20		20.0		20.0	17.9	2.1
VIKING B	105.0	<0.01		0.3		0.3	0.3	
VIKING C	83.9	0.10		8.4		8.4		8.4
PEKISKO B	320.0	<0.01		0.4		0.4	0.4	
MARLBORO 055-19W5								
GETHING A	273.0	<0.01		1.2		1.2	1.2	
GETHING B	165.0	<0.01		0.3		0.3	0.3	
MARLOWE 122-22W5								
KEG RIVER A	698.0	0.20		140.0		140.0	12.9	127.1
MATZIWIN 023-14W4								
GLAUCONITIC A	1 800.0	0.03		54.0		54.0	34.0	20.0
GLAUCONITIC B	187.0	0.10		18.7		18.7	3.2	15.5
LOWER MANNVILLE D	112.0	0.10		11.2		11.2	4.2	7.0
LOWER MANNVILLE E	498.0	0.10		49.8		49.8	6.2	43.6
LOWER MANNVILLE F	200.0	0.10		20.0		20.0	2.4	17.6
PEKISKO C	87.7	0.10		8.8		8.8	4.6	4.2
PEKISKO D	320.0	0.10		32.0		32.0	9.8	22.2
MCLEANS CREEK 074-21W5								
GILWOOD A	985.0	0.20		197.0		197.0	24.2	172.8
GILWOOD C	263.0	0.15		39.4		39.4	1.2	38.2
GILWOOD D	86.3	0.20		17.3		17.3	3.9	13.4
GILWOOD E	66.8	0.10		6.7		6.7	0.2	6.5
GILWOOD F	291.0	0.20		58.2		58.2	13.4	44.8
GILWOOD G	112.0	0.25		28.0		28.0	1.4	26.6
GILWOOD H	188.0	0.30		56.4		56.4		56.4
GRANITE WASH A	182.0	0.25		45.5		45.5	5.1	40.4
MCLEOD 056-14W5								
CARDIUM A	213.0	0.15		32.0		32.0	23.6	8.4
GETHING E	119.0	0.10		11.9		11.9	0.7	11.2
GETHING F	233.0	0.10		29.3		29.3	2.8	26.5
GETHING G	183.0	0.10		18.3		18.3	1.3	17.0
GETHING J	83.9	0.10		8.4		8.4	4.8	3.6
GETHING K	112.0	0.10		11.2		11.2	1.3	9.9
GETHING L	100.0	0.10		10.0		10.0	4.0	6.0
GETHING P & Q	225.0	0.07		15.8		15.8		15.8
MEDICINE RIVER 039-03W5								
CARDIUM A	82.6	0.02		1.7		1.7	0.4	1.3
CARDIUM B	154.0	0.08		12.3		12.3	2.9	9.4
VIKING A	63.6	<0.06		3.5		3.5	3.5	
VIKING D TOTAL	3 400.0			680.0	460.0	1 140.0	533.4	606.6
PRIMARY AREA	334.0	0.20		66.8		66.8		
WATER FLOOD AREA	3 066.0	0.20	0.15	613.0	460.0	1 073.0		
VIKING M	334.0	0.15		50.1		50.1	33.7	16.4
VIKING N	62.7	<0.03		1.6		1.6	1.6	
VIKING P	56.7	0.10		5.7		5.7		5.7
GLAUCONITIC A TOTAL	15 550.0			1 291.0	1 158.0	2 450.0	1 892.2	557.8
PRIMARY AREA	5 782.0	0.07		405.0		405.0		
WATER FLOOD AREA	9 770.0	<0.11	0.11	886.6	1 158.0	2 045.0		
GLAUCONITIC H	228.0	<0.01		0.5		0.5	0.5	
GLAUC D & OSTRACOD A TOTAL	2 181.0			327.0	321.0	648.0	403.1	244.9
PRIMARY AREA	575.0	0.15		86.3		86.3		
WATER FLOOD AREA	1 606.0	0.15	0.20	241.0	321.0	562.0		
OSTRACOD B	461.0	0.20		92.2		92.2	66.6	25.6

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
32	2.60	0.220	0.41	0.91	28	825	40	9 147	1 184.8	1984	88 04
64	3.30	0.200	0.45	0.91	32	830	40	7 574	1 152.7	1985	85 06 - SUSP 88 10
128	5.40	0.150	0.30	0.92	32	824	33	7 951	1 177.1	1988	89 05
64	3.00	0.130	0.34	0.91	28	825	40		1 111.5	1988	89 01
32	4.30	0.180	0.50	0.92	32	824	33		1 166.2	1988	89 02
64	4.80	0.240	0.33	0.87	57	838	32		1 046.4	1988	89 06
64	7.80	0.216	0.29	0.87	57	838	32	8 495	1 059.6	1986	87 09
167	1.84	0.070	0.38	0.75	102	833	66	12 810	1 902.6	1977	85 04 - SUSP 89 08
64	3.10	0.120	0.41	0.75	95	852	63	9 620	1 905.3	1977	83 12 - ABAND 82 10
64	2.00	0.120	0.35	0.84	51	840	71	12 827	1 920.3	1985	86 07
64	19.80	0.050	0.36	0.79	79	879	74	14 701	2 217.3	1980	81 08 - ABAND 83 04
65	7.32	0.120	0.20	0.60	239	825	97	35 120	2 802.0	1969	74 05 - ABAND 70 09
65	4.27	0.120	0.17	0.60	239	820	68	34 870	2 765.5	1970	73 02 - SUSP 71 06
64	80.50	0.019	0.19	0.88	43	825	52	10 649	1 342.8	1986	89 06
445	4.55	0.190	0.45	0.85	68	883	32	9 727	998.1	1983	86 12 - GPP
64	4.30	0.160	0.50	0.85	64	880	32	9 625	1 004.5	1985	85 11 - GPP
64	1.70	0.190	0.36	0.85	62	887	32	9 319	1 013.2	1983	84 02
128	4.46	0.180	0.43	0.85	60	850	35	9 731	1 012.5	1986	86 11
32	6.10	0.180	0.38	0.92	33	919	34	9 467	1 019.6	1987	88 11
64	5.00	0.050	0.34	0.83	67	847	43	10 300	1 015.5	1986	86 11
128	8.64	0.050	0.35	0.89	47	894	34	9 825	1 017.9	1984	89 05
256	4.58	0.160	0.41	0.89	32	838	58	26 990	2 528.9	1985	88 04
64	5.71	0.147	0.41	0.83	50	837	85	26 697	2 528.0	1987	87 10
64	2.54	0.122	0.50	0.87	36	854	86	25 771	2 587.4	1986	87 12
64	2.19	0.099	0.42	0.83	50	834	89	27 626	2 575.3	1987	88 03
244	1.80	0.120	0.38	0.89	36	834	86	28 368	2 587.2	1987	89 08
64	3.08	0.110	0.42	0.89	36	835	86	25 972	2 625.9	1988	88 09
64	3.23	0.140	0.27	0.89	23	827	90		2 578.3	1988	89 06
64	3.50	0.140	0.30	0.83	50	837	85	27 838	2 558.2	1987	87 09
72	5.02	0.100	0.30	0.84	62	834	53	9 060	1 497.2	1976	84 12 - GPP
64	2.90	0.120	0.37	0.85	52	883	72	13 662	2 023.2	1985	87 03
64	4.40	0.165	0.16	0.75	102	856	74	17 227	2 117.1	1986	87 04 - GPP
64	2.80	0.160	0.15	0.75	120	856	67	15 896	2 164.7	1986	87 07 - GPP
64	3.90	0.120	0.60	0.70	150	825	70	16 930	2 058.1	1983	84 06
64	3.20	0.123	0.39	0.73	102	856	76	16 523	2 124.0	1986	86 12
64	5.00	0.080	0.44	0.70	156	825	82		2 221.9	1988	89 04
64	5.74	0.125	0.30	0.70	156	825	82		2 209.4	1988	89 11
64	1.52	0.124	0.10	0.75	106	898	49	19 240	1 658.4	1963	84 12
65	2.44	0.160	0.09	0.67	167	898	62	20 990	1 848.0	1965	85 07
130	1.07	0.100	0.32	0.67	160	844	91	20 000	1 931.8	1963	71 05 - SUSP 68 06
3 405					130	813	52	14 639	1 864.0	1962	88 04
333	1.58	0.116	0.27	0.75							
3 072	1.57	0.116	0.27	0.75							
320	1.88	0.100	0.27	0.76	110	814	65	13 768	1 764.4	1984	86 09
64	2.00	0.100	0.30	0.70	130	813	52	14 857	1 888.3	1979	88 12 - SUSP 86 04
64	1.50	0.100	0.18	0.72	130	793	64		1 915.6	1988	89 11
5 292					244	839	64	26 270	2 268.9	1964	89 12
1 657	4.93	0.140	0.21	0.64							
3 635	4.18	0.130	0.25	0.66							
64	7.00	0.100	0.25	0.68	159	840	73	14 878	2 054.3	1979	86 12 - ABAND 84 06
1 435					101	887	67	26 200	2 080.8	1961	88 10
355	1.83	0.160	0.20	0.69							
1 080	1.92	0.140	0.20	0.69							
360	1.83	0.130	0.22	0.69	148	849	68	19 370	2 182.5	1963	85 04

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
MEDICINE RIVER								
039-03W5 (CONTINUED)								
OSTRACOD C	585.0	0.17		99.5		99.5	85.9	13.6
OSTRACOD P	470.0	<0.01		0.5		0.5	0.5	
OSTRACOD R	63.6	<0.03		1.4		1.4	1.4	
OSTRACOD S	111.0	0.12		13.3		13.3	11.5	1.8
OSTRACOD W	364.0	0.20		72.8		72.8	55.4	17.4
OSTRACOD Y	53.7	0.10		5.4		5.4	0.8	4.6
BASAL QUARTZ B TOTAL	5 800.0			406.0	145.0	551.0	364.2	186.8
PRIMARY AREA	2 900.0	0.07		203.0		203.0		
WATER FLOOD AREA	2 900.0	0.07	0.05	203.0	145.0	348.0		
BASAL QUARTZ C	65.5	<0.01		0.5		0.5	0.5	
BASAL QUARTZ D	393.0	<0.05		18.7		18.7	18.7	
BASAL QUARTZ F	138.0	<0.01		0.6		0.6	0.6	
BASAL QUARTZ G TOTAL	767.0			31.7	22.6	54.3	44.6	9.7
PRIMARY AREA	201.0	0.05		10.1		10.1		
WATER FLOOD AREA	566.0	<0.04	0.04	21.6	22.6	44.2		
BASAL QUARTZ H	159.0	0.10		15.9		15.9	14.8	1.1
BASAL QUARTZ I	262.0	0.13		34.0		34.0	31.3	2.7
BASAL QUARTZ J	556.0	0.08		44.5		44.5	28.4	16.1
BASAL QUARTZ K	313.0	0.20		62.6		62.6	23.0	39.6
BASAL QUARTZ Y	199.0	<0.01		0.2		0.2	0.2	
BASAL QUARTZ BB	134.0	0.10		13.4		13.4	9.7	3.7
BASAL QUARTZ EE	605.0	0.02		12.1		12.1	1.8	10.3
JURASSIC A	5 150.0	0.16	0.22	823.0	1 134.0	1 957.0	1 779.9	177.1
WATER FLOOD								
JURASSIC B	1 160.0	0.15		177.0		177.0	162.8	14.2
JURASSIC C TOTAL	9 000.0			1 350.0	1 657.0	3 007.0	1 781.6	1 225.4
PRIMARY AREA	714.0	0.15		107.1		107.1		
WATER FLOOD AREA	8 286.0	0.15	0.20	1 243.0	1 657.0	2 900.0		
JURASSIC D TOTAL	9 114.0			1 546.0	1 700.0	3 246.0	1 805.5	1 440.5
PRIMARY AREA	974.0	0.17		166.0		166.0		
WATER FLOOD AREA	8 140.0	0.17	0.21	1 380.0	1 700.0	3 080.0		
JURASSIC E	281.0	0.15		42.2		42.2	38.6	3.6
JURASSIC K	721.0	0.15		108.0		108.0	86.3	21.7
JURASSIC L	128.0	0.03		3.8		3.8	3.2	0.6
JURASSIC N	62.1	<0.01		0.3		0.3	0.3	
JURASSIC Q	128.0	0.15		19.2		19.2	10.7	8.5
ELKTON-SHUNDA A	318.0	<0.04		12.0		12.0	12.0	
ELKTON-SHUNDA C	520.0	0.10		52.0		52.0	44.9	7.1
ELKTON-SHUNDA D	165.0	<0.01		0.3		0.3	0.3	
SHUNDA A	221.0	<0.01		1.8		1.8	1.8	
PEKISKO B	869.0	0.15	0.05	130.0	43.5	174.0	130.0	44.0
WATER FLOOD								
PEKISKO C TOTAL	2 180.0			71.7	64.5	136.0	114.5	21.5
PRIMARY AREA	885.0	<0.01		7.2		7.2		
WATER FLOOD AREA	1 290.0	0.05	0.05	64.5	64.5	129.0		
PEKISKO D	91.2	0.07		6.4		6.4	6.4	
PEKISKO E TOTAL	3 520.0			352.0	453.0	805.0	535.3	269.7
PRIMARY AREA	501.0	0.10		50.1		50.1		
WATER FLOOD AREA	3 020.0	0.10	0.15	302.0	453.0	755.0		
PEKISKO G	184.0	<0.01		0.2		0.2	0.2	
PEKISKO H	238.0	<0.02		2.7		2.7	2.7	
PEKISKO I	6 360.0	0.21		1 330.0		1 330.0	996.5	333.5
PEKISKO K	180.0	0.12		21.6		21.6	18.2	3.4
PEKISKO N	5 000.0	0.15		750.0		750.0	291.0	459.0
PEKISKO R	1 320.0	0.15		197.0		197.0	129.5	67.5
PEKISKO S	449.0	0.10		44.9		44.9	16.2	28.7
PEKISKO U	710.0	0.05		35.5		35.5	11.3	24.2
PEKISKO V	170.0	0.10		17.0		17.0	3.6	13.4
BANFF A	14.2	<0.01		0.1		0.1	0.1	
NISKU A	1 000.0	0.40		400.0		400.0	57.0	343.0
D-3 A	1 260.0	0.30		378.0		378.0	87.9	290.1
D-3 B	502.0	0.30		151.0		151.0	9.1	141.9
D-3 C	152.0	0.30		45.6		45.6	9.5	36.1
D-3 D	1 446.0	0.30		434.0		434.0	49.4	384.6
COOKING LAKE A	67.0	0.15		10.1		10.1	0.2	9.9
MEEKWAP 066-15W5								
D-2 A TOTAL	12 050.0			2 410.0	2 731.0	5 141.0	3 965.5	1 175.5
PRIMARY AREA	674.0	0.20		134.0		134.0		
WATER FLOOD AREA	11 380.0	0.20	0.24	2 276.0	2 731.0	5 007.0		
D-2 B	175.0	0.30		52.5		52.5	29.0	23.5

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
117	5.30	0.171	0.20	0.69	153	839	72	20 221	2 298.2	1964	89 12 - GPP
65	10.97	0.120	0.20	0.69	155	855	59	16 150	2 206.1	1972	74 06 - ABAND 73 09
65	1.52	0.120	0.25	0.72	133	870	68	17 440	2 283.3	1974	76 12 - ABAND 75 06
98	1.83	0.110	0.25	0.75	110	849	57	19 410	2 166.8	1974	88 12 - GPP
150	3.11	0.130	0.20	0.75	119	860	71	20 170	2 281.4	1965	85 12 - GPP
64	1.70	0.100	0.35	0.76	110	877	57	17 078	2 053.5	1983	84 05 - SUSP 88 12
1 499					88	892	70	16 270	2 147.9	1959	89 08
732	4.78	0.138	0.24	0.79							- GPP
767	4.58	0.134	0.22	0.79							- ABAND 63 08
32	2.44	0.140	0.24	0.78	74	892	66	15 690	2 130.2	1962	83 12 - ABAND 83 12
129	2.99	0.167	0.24	0.80	74	892	68	15 510	2 099.5	1963	64 12 - ABAND 66 10
64	1.83	0.200	0.25	0.78	76	898	68	16 480	2 158.9	1963	89 10
98					74	910	66	21 455	2 140.0	1963	
32	9.50	0.110	0.25	0.80							- GPP
65	11.22	0.130	0.25	0.80							- GPP
32	6.40	0.130	0.25	0.79	76	898	66	16 270	2 178.4	1963	81 12 - GPP
64	5.22	0.140	0.30	0.80	78	898	66	16 550	2 225.0	1962	87 12 - GPP
64	10.47	0.140	0.25	0.79	89	898	66	17 000	2 217.7	1971	89 12 - GPP
96	4.53	0.130	0.30	0.79	76	892	68	18 400	2 172.6	1965	75 11 - SUSP 75 09
65	5.18	0.096	0.22	0.79	87	898	66	16 130	2 239.4	1974	80 05
64	3.50	0.100	0.20	0.75	112	866	74	20 305	2 363.0	1980	89 12
32	26.00	0.140	0.35	0.80	74	910	66	15 547	2 184.7	1987	88 12 - GPP
1 289	4.69	0.142	0.25	0.80	90	887	63	16 000	2 153.1	1956	
303	5.03	0.132	0.27	0.79	88	887	69	16 000	2 135.4	1961	86 12 - GPP
1 689					84	892	63	16 410	2 182.4	1961	86 08
270	3.73	0.132	0.32	0.79							- GPP
1 419	8.00	0.138	0.33	0.79							
753					83	887	68	16 200	2 141.2	1959	89 12
64	17.50	0.145	0.25	0.80							- GPP
689	14.11	0.145	0.25	0.77							- GPP
64	7.01	0.110	0.25	0.76	94	887	70	16 790	2 197.9	1962	83 12 - GPP
160	5.85	0.130	0.25	0.79	86	892	66	19 030	2 175.1	1974	88 12 - GPP
64	3.00	0.110	0.17	0.73	130	803	99	15 472	2 148.8	1980	81 11 - GPP
64	2.40	0.070	0.25	0.77	105	888	69	15 697	2 146.7	1980	83 05 - ABAND 85 06
64	2.40	0.150	0.28	0.77	105	871	69	17 300	2 292.3	1985	87 01
64	7.21	0.100	0.18	0.84	75	915	71	17 000	2 248.2	1962	83 12 - SUSP 77 08
65	12.50	0.098	0.20	0.82	77	876	49	18 330	2 328.4	1974	75 05
64	6.06	0.083	0.39	0.84	74	913	71	18 300	2 313.3	1985	86 07 - ABAND 86 06
65	5.18	0.110	0.20	0.75	121	910	77	18 640	2 290.0	1972	74 12 - SUSP 74 10
196	5.61	0.119	0.16	0.79	62	898	70	16 340	2 161.9	1959	84 12 - GPP
362					62	898	69	16 200	2 156.2	1961	83 12 - GPP
128	15.79	0.072	0.22	0.78							
234	12.55	0.072	0.22	0.78							
32	4.88	0.087	0.15	0.79	62	898	68	16 070	2 152.2	1961	89 12 - SUSP 87 03
654					75	887	71	16 240	2 194.0	1963	86 05
64	11.40	0.110	0.22	0.80							- GPP
590	7.86	0.098	0.17	0.80							- ABAND 71 10
64	7.62	0.060	0.29	0.88	44	972	70	14 580	2 155.5	1964	68 03 - ABAND 70 09
65	13.78	0.050	0.34	0.81	62	904	71	16 030	2 144.6	1964	77 12 - GPP
928	10.45	0.100	0.18	0.80	88	898	71	16 890	2 207.7	1954	87 12 - GPP
65	7.89	0.053	0.18	0.81	62	898	71	16 240	2 188.5	1965	82 06
1 002	8.00	0.100	0.22	0.80	74	844	82	16 320	2 139.3	1963	78 06
264	6.61	0.110	0.15	0.81	74	892	73	16 480	2 147.9	1973	89 06
64	8.60	0.120	0.16	0.81	76	896	69	16 236	2 199.2	1984	88 07
64	21.43	0.090	0.29	0.81	74	892	73	14 367	2 157.6	1984	88 04
32	5.50	0.170	0.30	0.81	74	900	73	14 608	2 205.1	1987	86 04 - SUSP 86 05
64	1.10	0.030	0.20	0.84	62	839	67	24 749	2 338.9	1985	86 11
129	24.85	0.056	0.13	0.64	160	812	31	24 128	2 929.5	1985	88 01
128	17.78	0.079	0.09	0.77	128	817	88	20 074	3 106.7	1985	88 03
128	10.70	0.058	0.11	0.71	125	826	83	19 878	3 101.0	1985	86 07
64	5.70	0.060	0.10	0.77	115	834	85	17 514	2 904.3	1986	87 03
64	37.50	0.086	0.09	0.77	125	821	88	20 131	3 117.0	1986	88 12
64	3.70	0.054	0.35	0.80	100	830	79		2 847.7	1988	
2 772					120	844	80	20 770	2 367.3	1966	88 08
420	6.50	0.047	0.29	0.74							- GPP
2 352	9.05	0.085	0.15	0.74							
64	11.24	0.038	0.20	0.80	71	860	83	19 944	2 325.3	1971	75 12

TABLE 2-4

FIELD POOL	1	3		5			6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES	
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL			
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	
MEEKWAP 066-15W5 (CONTINUED)									
D-2 C	96.3	<0.01		0.1		0.1	0.1		
D-2 D	334.0	0.10		33.4		33.4	24.6	8.8	
D-2 E	178.0	0.10		17.8		17.8	3.4	14.4	
D-2 F	432.0	0.07		30.2		30.2	18.9	11.3	
MELLOWDALE 060-03W5									
LOWER MANNVILLE B	1 470.0	0.10		147.0		147.0	42.6	104.4	
MICHICHI 031-17W4									
UPPER MANNVILLE A	126.0	<0.01		0.6		0.6	0.6		
LOWER MANNVILLE A	499.0	0.10		49.9		49.9	22.2	27.7	
LOWER MANNVILLE B	270.0	0.02		5.4		5.4	3.0	2.4	
LOWER MANNVILLE I	806.0	0.10		80.6		80.6	11.9	68.7	
LOWER MANNVILLE K	217.0	0.15		32.6		32.6	0.4	32.2	
LOWER MANNVILLE M	126.0	0.10		12.6		12.6	0.1	12.5	
LOWER MANNVILLE N	63.1	0.05		3.2		3.2	0.1	3.1	
OSTRACOD B	220.0	<0.01		0.2		0.2	0.2		
DETRITAL B	164.0	0.10		16.4		16.4	0.1	16.3	
DETRITAL C	320.0	<0.01		0.4		0.4	0.4		
BANFF A	1 014.0	0.07		71.0	ERSO	71.0	62.0	9.0	
BANFF C	356.0	0.10		35.6		35.6	12.4	23.2	
BANFF D	2 595.0	0.10		260.0		260.0	27.9	232.1	
BANFF E	321.0	0.05		16.1		16.1	2.0	14.1	
BANFF F	397.0	0.05		19.9		19.9	4.6	15.3	
BANFF G	123.0	0.05		6.0		6.0	2.4	3.6	
BANFF H	366.0	0.10		36.6		36.6	18.9	17.7	
BANFF I	87.6	0.10		8.8		8.8	5.0	3.8	
BANFF L	538.0	0.15		80.7		80.7	10.4	70.3	
BANFF M	493.0	0.15		74.0		74.0	8.9	65.1	
BANFF N	153.0	<0.01		0.1		0.1	0.1		
BANFF O	515.0	<0.01		0.3		0.3	0.3		
BANFF P	30.0	<0.01		0.1		0.1		0.1	
BANFF Q	146.0	<0.01		0.2		0.2	0.2		
BANFF R	255.0	0.05		12.8		12.8	0.2	12.6	
BANFF T	247.0	0.10		24.7		24.7	1.9	22.8	
BANFF W	17.8	0.15		2.7		2.7	0.2	2.5	
MIKWAN 037-23W4									
VIKING C	65.9	0.10		6.6		6.6	1.3	5.3	
VIKING D	17.3	<0.05		0.8		0.8	0.8		
VIKING H	72.6	0.15		10.9		10.9	3.6	7.3	
UPPER MANNVILLE F	1 340.0	0.01		13.4		13.4	6.5	6.9	
UPPER MANNVILLE G	193.0	0.10		19.3		19.3	4.6	14.7	
UPPER MANNVILLE H	341.0	0.10		34.1		34.1	15.6	18.5	
LOWER MANNVILLE H	63.5	0.10		6.4		6.4	3.7	2.7	
LOWER MANNVILLE J	698.0	0.10		69.8		69.8	18.0	51.8	
LOWER MANNVILLE W	50.2	<0.01		0.1		0.1	0.1		
D-2 A	450.0	0.30		135.0		135.0	102.5	32.5	
D-2 B	450.0	0.35		158.0		158.0	99.9	58.1	
D-2 C	290.0	0.10		29.0		29.0	13.6	15.4	
D-2 D	262.0	0.20		52.4		52.4	20.8	31.6	
D-2 E	155.0	0.20		31.0		31.0	2.3	28.7	
D-2 F	149.0	0.20		29.8		29.8	11.9	17.9	
D-2 G	30.1	<0.01		0.1		0.1	0.1		
D-3 A	339.0	<0.03		9.0		9.0	9.0		
D-3 B	645.0	0.20		129.0		129.0	59.2	69.8	
D-3 C	166.0	<0.01		0.4		0.4	0.4		
MINEHEAD 048-18W5									
BELLY RIVER A	236.0	0.15		35.4		35.4	2.1	33.3	
CARDIUM A	350.0	0.05		17.5		17.5	6.4	11.1	
MINNEHIK-BUCK LAKE 045-05W5									
BELLY RIVER A	215.0	0.10		21.5		21.5	10.0	11.5	
BELLY RIVER B	238.0	0.10		23.8		23.8	5.2	18.6	
BELLY RIVER C	676.0	0.15		101.0		101.0	21.7	79.3	
BELLY RIVER E	250.0	0.10		25.0		25.0	11.0	14.0	
BELLY RIVER F	538.0	0.10		53.8		53.8	22.4	31.4	
BELLY RIVER G	704.0	0.01		7.0		7.0	3.4	3.6	
BELLY RIVER J	182.0	0.10		18.2		18.2	3.1	15.1	

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	4.30	0.054	0.20	0.81	66	857	83	14 519	2 310.7	1980	83 12 - SUSP 82 11
64	9.26	0.087	0.20	0.81	71	844	83	15 018	2 312.2	1971	83 12 - GPP
64	7.10	0.069	0.30	0.81	82	857	80	21 423	2 333.6	1973	83 12
128	9.31	0.070	0.30	0.74	119	845	80	15 017	2 369.9	1982	86 12
461	3.06	0.200	0.40	0.87	45	892	35	8 252	1 112.6	1979	85 01 - GPP
64	2.00	0.180	0.40	0.91	39	866	32	9 501	1 288.0	1981	83 12 - SUSP 85 05
128	3.21	0.240	0.39	0.83	66	859	42	9 502	1 354.4	1982	84 02 - GPP
64	5.48	0.160	0.42	0.83	64	854	40	8 030	1 326.0	1982	86 09 - GPP
192	3.69	0.190	0.32	0.88	50	883	36	9 052	1 309.7	1985	86 11
64	3.30	0.180	0.33	0.85	62	860	36	9 810	1 283.2	1986	87 01 - GPP
64	5.00	0.110	0.57	0.83	69	864	50	8 525	1 306.1	1987	87 12 - SUSP 89 10
64	1.10	0.180	0.40	0.83	64	844	47	8 886	1 269.6	1987	88 03
64	3.00	0.230	0.40	0.83	64	832	44	9 915	1 344.0	1983	88 12 - SUSP 86 09
64	2.40	0.180	0.34	0.90	64	878	41	9 428	1 333.5	1987	88 01
64	6.00	0.170	0.41	0.83	64	845	47	8 399	1 280.3	1987	88 04 - ABAND 89 04
465	8.90	0.041	0.28	0.83	61	854	40	9 413	1 330.9	1985	88 06
128	15.18	0.030	0.29	0.86	55	880	45	9 382	1 359.6	1985	86 03
641	12.00	0.063	0.37	0.85	61	875	42	9 598	1 319.4	1985	87 08
64	4.00	0.200	0.27	0.86	55	860	40	9 525	1 332.1	1986	89 12
128	11.70	0.060	0.52	0.92	28	880	42	9 422	1 306.2	1986	88 04
64	8.91	0.040	0.35	0.83	70	870	45	9 554	1 337.8	1985	86 12 - GPP
64	19.69	0.050	0.30	0.83	70	854	40	9 290	1 341.7	1985	88 12
64	5.50	0.050	0.40	0.83	70	862	40	8 932	1 326.7	1984	87 12
128	19.50	0.040	0.35	0.83	64	860	47	8 983	1 350.7	1986	87 04
64	21.00	0.065	0.32	0.83	64	875	47	8 481	1 299.5	1986	87 05
64	9.70	0.048	0.38	0.83	64	875	47	9 706	1 367.2	1987	87 05 - ABAND 87 03
64	19.00	0.060	0.17	0.85	50	870	35	9 052	1 359.7	1987	87 10 - ABAND 89 04
64	2.30	0.030	0.20	0.85	50	870	35	8 889	1 367.4	1987	89 12 - SUSP 87 07
64	12.90	0.040	0.48	0.85	61	870	42	9 120	1 351.0	1986	88 12 - SUSP 86 09
64	15.00	0.040	0.22	0.85	61	849	42	8 991	1 327.4	1987	88 01
64	11.20	0.050	0.17	0.83	64	845	47	8 916	1 443.7	1988	88 06
64	1.60	0.030	0.30	0.83	64	845	47	8 202	1 307.4	1987	89 06
64	2.00	0.090	0.35	0.88	44	839	53	6 683	1 380.0	1980	81 05 - GPP
64	0.92	0.070	0.50	0.84	69	839	42	6 722	1 448.3	1977	78 10 - ABAND 85 06
64	1.30	0.140	0.30	0.89	60	852	47	8 591	1 352.7	1986	89 12
128	7.34	0.180	0.11	0.89	40	892	50	8 428	1 648.4	1962	82 04
64	2.30	0.220	0.30	0.85	59	819	46	9 304	1 488.3	1980	81 07
128	2.63	0.170	0.33	0.89	40	901	43	9 183	1 473.3	1980	83 04 - GPP
64	1.00	0.170	0.27	0.80	110	797	44	8 856	1 539.0	1980	84 05 - GPP
128	5.50	0.150	0.26	0.90	35	873	47	6 484	1 534.0	1983	84 11 - GPP
64	1.50	0.140	0.55	0.83	62	875	48	9 372	1 574.8	1987	88 01 - ABAND 88 05
320	3.29	0.090	0.35	0.73	124	844	64	15 390	1 824.7	1970	88 09
128	6.29	0.097	0.22	0.74	100	833	64	14 018	1 788.7	1979	88 09
128	6.01	0.067	0.25	0.75	110	830	62	13 612	1 756.3	1978	85 12
64	7.30	0.090	0.17	0.75	105	822	47	13 281	1 757.7	1983	84 12
64	6.40	0.080	0.37	0.75	100	838	57	12 850	1 815.0	1985	85 10
128	3.30	0.055	0.22	0.82	70	860	54	13 406	1 811.3	1985	87 08
64	1.20	0.060	0.13	0.75	80	901	74	15 699	1 995.2	1984	88 12 - SUSP 85 12
224	2.99	0.090	0.25	0.75	106	865	63	15 600	1 848.0	1971	88 12 - ABAND 82 12
64	13.00	0.120	0.15	0.76	100	852	76	13 824	1 819.5	1979	80 01
64	3.60	0.120	0.25	0.80	100	877	61	13 341	1 894.5	1985	86 03 - ABAND 87 05
64	7.40	0.100	0.40	0.83	62	828	76	10 506	1 966.6	1986	87 02 - SUSP 89 05
64	6.70	0.160	0.15	0.60	210	816	74	24 951	2 562.8	1968	89 06 - GPP
65	3.66	0.160	0.32	0.83	74	825	46	9 560	1 191.8	1973	78 10
64	5.60	0.150	0.48	0.85	67	845	46	8 941	1 205.7	1980	81 07
129	6.44	0.140	0.30	0.83	74	845	46	8 717	1 255.6	1981	85 07
64	5.00	0.157	0.40	0.83	74	844	50	7 377	1 176.0	1981	82 08
64	9.00	0.150	0.25	0.83	65	848	52	9 208	1 233.8	1982	83 05
64	13.00	0.150	0.32	0.83	65	848	52	9 315	1 178.2	1983	86 12
64	4.00	0.130	0.34	0.83	65	848	52	10 200	1 212.8	1982	84 01 - GPP

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
MINNEHIK-BUCK LAKE 045-05W6 (CONTINUED)								
BELLY RIVER K	102.0	<0.01		0.1		0.1	0.1	
CARDIUM A	181.0	0.08		14.5		14.5	12.5	2.0
CARDIUM E	160.0	0.10		16.0		16.0	14.1	14.9
CARDIUM J	5 670.0	0.06		340.0		340.0	160.4	179.6
CARDIUM L	627.0	0.05		31.4		31.4	16.4	15.0
CARDIUM N	93.3	<0.01		0.3		0.3	0.3	
CARDIUM O	55.6	<0.01		0.1		0.1		0.1
CARDIUM P	61.4	<0.01		0.1		0.1	0.1	
CARDIUM Q	212.0	0.03		6.4		6.4	0.4	6.0
VIKING A	265.0	<0.01		0.7		0.7	0.7	
VIKING C	301.0	0.20		60.2		60.2	14.6	45.6
VIKING D	124.0	0.10		12.4		12.4	0.7	11.7
VIKING E	42.2	0.20		8.4		8.4	3.8	4.6
VIKING F	42.6	0.20		8.5		8.5	3.4	5.1
VIKING H	292.0	0.25		73.0		73.0	30.3	42.7
VIKING I	64.9	0.15		9.7		9.7	6.5	3.2
VIKING J	60.0	0.20		12.0		12.0	5.1	6.9
VIKING K	28.9	0.20		5.8		5.8	5.7	0.1
OSTRACOD A	744.0	0.20		149.0		149.0	110.3	38.7
OSTRACOD B	66.7	0.15		10.0		10.0	5.9	4.1
OSTRACOD G	180.0	0.20		36.0		36.0	21.0	15.0
OSTRACOD H	78.9	0.15		11.8		11.8	5.3	6.5
OSTRACOD I	153.0	0.15		22.9		22.9	11.1	11.8
OSTRACOD E & F	136.0	0.10		13.6		13.6	1.6	12.0
JURASSIC B	82.8	0.05		4.1		4.1	0.7	3.4
BANFF A	198.0	<0.01		0.1		0.1	0.1	
D-2 A	277.0	<0.01		1.1		1.1	1.1	
MIRAGE 079-07W6								
HALFWAY B	959.0	0.10		95.9		95.9	22.2	73.7
MITSUE 071-04W5								
GILWOOD A TOTAL	121 700.0			30 060.0	31 060.0	61 120.0	46 678.4	14 441.6
PRIMARY AREA	3 780.0	0.16		586.0		586.0		
SOLVENT FLOOD AREA	52 000.0	0.25	0.38	13 000.0	19 760.0	32 760.0		
WATER FLOOD AREA	65 890.0	0.25	0.18	16 470.0	11 300.0	27 770.0		
GILWOOD B	344.0	0.20		68.8		68.8	19.6	49.2
GILWOOD E	42.6	0.10		4.3		4.3	0.2	4.1
MONTGOMERY 011-28W4								
SECOND WHITE	1 500.0	0.20		300.0		300.0	199.6	100.4
SPECKS A								
SECOND WHITE	1 350.0	<0.01		6.2		6.2	6.2	
SPECKS B								
MORINVILLE 055-25W4								
UPPER MANNVILLE F	378.0	<0.01		0.3		0.3	0.3	
UPPER MANNVILLE H	175.0	0.05		8.8		8.8		8.8
LOWER MANNVILLE A	199.0	<0.11		20.3		20.3	20.3	
LOWER MANNVILLE F	120.0	0.05		6.0		6.0	3.9	2.1
LOWER MANNVILLE L	226.0	<0.03		6.7		6.7	6.7	
LOWER MANNVILLE O	49.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE U	219.0	<0.01		0.1		0.1		0.1
D-1 A	55.9	<0.13		7.2		7.2	7.2	
D-1 B	799.0	<0.01		2.5		2.5	2.5	
D-1 C	133.0	0.10		13.3		13.3	0.9	12.4
D-3 A	90.6	<0.32		28.6		28.6	28.6	
D-3 B	3 320.0	<0.55		1 820.0		1 820.0	1 613.7	206.3
D-3 C	1 664.0	0.10		166.0		166.0	69.4	96.6
D-3 D	57.1	0.30		17.1		17.1	6.1	11.0
D-3 E	980.0	0.35		343.0		343.0	105.0	238.0
D-3 F	212.0	<0.01		0.2		0.2		0.2
D-3 G	253.0	0.05		12.7		12.7	2.3	10.4
MORNINGSIDE 042-28W4								
BELLY RIVER A	349.0	0.03		10.5		10.5	1.8	8.7
VIKING A	68.5	0.10		6.9		6.9	1.7	5.2
OSTRACOD A	24.2	0.10		2.4		2.4	0.9	1.5
ELLERSLIE A	95.2	0.15		14.3		14.3	2.8	11.5

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.93	0.140	0.65	0.83	65	848	52	10 842	1 289.9	1984	85 10 - ABAND 85 11
130	2.13	0.110	0.15	0.70	96	815	49	12 070	1 718.0	1960	78 11 - GPP
128	2.22	0.090	0.20	0.78	96	830	49	12 013	1 718.5	1978	89 08
3 314	2.16	0.115	0.15	0.81	125	830	56	16 595	1 559.5	1979	87 01 - GPP
506	1.30	0.140	0.18	0.83	65	805	58	14 911	1 673.3	1980	86 12 - GPP
64	1.58	0.134	0.15	0.81	74	830	66	10 631	1 626.9	1982	82 11 - SUSP 85 07
64	1.50	0.130	0.45	0.81	125	830	56	10 783	1 617.8	1984	85 10 - ABAND 85 11
64	1.50	0.100	0.20	0.80	125	830	56	10 808	1 515.9	1985	86 05 - SUSP 86 09
128	2.00	0.120	0.15	0.81	125	830	56	10 202	1 676.4	1984	89 12
65	4.88	0.160	0.30	0.75	105	838	88	14 690	1 805.3	1953	66 11 - SUSP 66 11
398	1.61	0.080	0.30	0.84	156	827	72	18 955	1 860.1	1982	89 12
64	4.00	0.090	0.36	0.84	54	827	72	6 956	1 771.3	1982	83 06
64	1.10	0.100	0.25	0.80	149	827	82	16 677	1 843.9	1983	88 12
128	1.00	0.070	0.30	0.68	149	821	83	16 791	1 882.7	1984	87 12
1 000	0.62	0.080	0.30	0.84	56	827	72	14 564	1 895.8	1984	89 12
80	1.76	0.090	0.36	0.80	74	813	60	13 747	1 878.7	1985	87 12
117	1.20	0.090	0.30	0.68	149	825	82	14 062	1 935.5	1986	88 12
128	0.72	0.063	0.34	0.75	91	832	74		1 890.8	1988	89 03
704	1.47	0.130	0.21	0.70	160	827	60	17 500	2 051.2	1980	87 04
121	1.50	0.070	0.25	0.70	132	817	72	18 296	2 058.6	1981	83 12
259	1.04	0.130	0.21	0.65	174	812	80	19 450	2 119.9	1985	88 12
64	1.50	0.145	0.19	0.70	174	820	80	18 500	2 074.6	1986	86 06 - SUSP 89 10
128	1.66	0.130	0.15	0.65	174	812	80		2 102.5	1988	88 07
64	3.58	0.116	0.27	0.70	174	812	80	18 705	2 139.9	1984	85 11
64	2.00	0.120	0.23	0.70	145	856	70	14 921	2 170.2	1985	85 09
64	7.40	0.078	0.33	0.80	88	879	54	14 156	2 102.5	1985	86 05 - ABAND 87 01
64	24.99	0.043	0.35	0.61	195	801	78	19 840	2 528.3	1975	81 12 - SUSP 81 02
508	3.42	0.100	0.31	0.80	91	825	58		1 395.3	1988	89 06
47 396					103	811	60	18 240	1 722.4	1964	89 01
798	8.63	0.110	0.36	0.78							- GPP
13 259	5.45	0.144	0.36	0.78							- GPP
33 339	3.19	0.124	0.36	0.78							- GPP
192	3.03	0.118	0.35	0.77	103	817	63	15 697	1 718.1	1987	88 07
64	1.55	0.086	0.36	0.78	80	821	65	10 000	1 592.6	1981	82 05
138	9.24	0.200	0.20	0.73		805	87	32 972	2 557.0	1968	85 10
64	18.00	0.200	0.80	0.73		821	75	20 366	2 400.0	1979	79 01 - SUSP 84 11
16	20.30	0.190	0.32	0.90	40	966	40	8 169	1 020.2	1987	88 03 - ABAND 89 01
64	2.70	0.210	0.48	0.93	28	859	32		1 016.2	1988	89 10
100	1.52	0.220	0.30	0.85	41	876	46	7 860	1 092.4	1965	75 06 - SUSP 81 01
57	1.83	0.170	0.25	0.90	62	876	47	8 960	1 148.8	1951	88 12 - GPP
93	2.59	0.220	0.52	0.89	50	887	44	9 760	1 244.2	1965	84 12 - SUSP 80 07
64	1.00	0.170	0.50	0.90	33	871	43	6 692	1 155.0	1983	84 01 - ABAND 84 09
64	3.90	0.210	0.52	0.87	50	875	46	8 169	1 087.5	1987	88 01 - ABAND 88 10
130	2.74	0.030	0.30	0.75	53	839	48	8 720	1 161.6	1953	64 12 - ABAND 60 10
192	7.67	0.110	0.42	0.85	62	822	35	8 123	1 139.8	1986	88 01 - ABAND 89 08
64	5.20	0.080	0.40	0.83	64	838	38	7 623	1 121.1	1987	87 10 - SUSP 89 02
16	10.97	0.080	0.15	0.75	62	849	56	10 760	1 397.2	1955	76 12 - SUSP 83 03
345	14.80	0.085	0.09	0.84	60	844	60	13 100	1 608.1	1960	88 07
459	4.51	0.110	0.13	0.84	62	849	52	10 790	1 380.1	1963	89 04 - GPP
16	6.00	0.100	0.15	0.70	135	844	42	10 645	1 411.3	1982	83 02
128	9.99	0.120	0.24	0.84	59	890	61	10 412	1 370.6	1982	84 01
64	8.30	0.060	0.21	0.84	59	842	61	16 051	1 642.7	1983	84 03 - ABAND 84 01
64	5.10	0.100	0.14	0.90	45	949	51	10 665	1 332.7	1985	85 12
192	3.17	0.160	0.61	0.92	28	806	38	6 000	959.9	1986	89 12
64	1.00	0.180	0.30	0.85	46	836	57	13 977	1 664.5	1980	88 09
32	1.00	0.120	0.25	0.84	58	918	63	13 088	1 790.5	1984	88 08
64	1.80	0.120	0.18	0.84	58	917	63		1 856.2	1988	89 12

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
MULLIGAN 082-08W6 CHARLIE LAKE A	253.0	0.10		25.3		25.3	10.4	14.9
NELSON 043-26W4 VIKING A	1 600.0	0.10		160.0		160.0	61.0	99.0
LOWER MANNVILLE A	133.0	0.10		13.3		13.3	0.6	12.7
NEVIS 039-22W4 BLAIRMORE B	305.0	<0.01		0.3		0.3	0.3	
BLAIRMORE C	1 600.0	0.15		240.0		240.0	182.8	57.2
BLAIRMORE D	126.0	<0.02		2.4		2.4	2.4	
BLAIRMORE F	215.0	0.10		21.5		21.5	10.1	11.4
BLAIRMORE H	144.0	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE A	2 146.0	0.08		172.0		172.0	126.0	46.0
UPPER MANNVILLE D	392.0	0.10		39.2		39.2	13.4	25.8
UPPER MANNVILLE E	220.0	0.15		33.0		33.0	15.6	17.4
LOWER MANNVILLE A	62.7	<0.01		0.5		0.5	0.5	
DEVONIAN	429.0	<0.04		14.8		14.8	14.4	0.4
D-1 A	28.1	0.05		1.4		1.4	0.8	0.6
D-2 A	274.0	0.30		82.2		82.2	3.1	79.1
D-2 B	198.0	0.05		9.9		9.9	0.3	9.6
D-3 B	238.0	0.16		38.1		38.1	36.1	2.0
D-3 C	222.0	<0.22		47.4		47.4	47.4	
D-3 D	191.0	0.20		38.2		38.2	23.6	14.6
D-3 E	1 270.0	0.15		191.0		191.0	142.4	48.6
D-3 F	400.0	<0.03		11.1		11.1	11.1	
D-3 G	240.0	0.30		72.0		72.0	53.0	19.0
D-3 H	303.0	0.20		60.6		60.6	0.4	60.2
NEW NORWAY 044-22W4 BLAIRMORE	69.1	<0.01		0.2		0.2	0.2	
BASAL QUARTZ C	163.0	<0.01		0.8		0.8	0.8	
D-2	2 150.0	0.65		1 400.0		1 400.0	1 283.5	116.5
D-3	318.0	0.60		191.0		191.0	179.3	11.7
NEWBROOK 062-20W4 UPPER MANNVILLE N	121.0	<0.01		0.1		0.1	0.1	
NIPISI 079-08W5 SLAVE POINT A	353.0	0.10		35.3		35.3	9.8	25.5
SLAVE POINT B	395.0	<0.01		1.1		1.1	1.1	
SLAVE POINT C	435.0	0.10		43.5		43.5	4.0	39.5
SLAVE POINT D	134.0	0.15		20.1		20.1	7.3	12.8
GILWOOD A TOTAL	117 600.0			30 520.0	29 840.0	60 360.0	43 730.1	16 629.9
PRIMARY AREA	5 508.0	0.25		1 377.0		1 377.0		
SOLVENT FLOOD AREA	72 700.0	<0.27	0.34	18 900.0	24 910.0	43 810.0		
WATER FLOOD AREA	39 400.0	0.26	0.13	10 240.0	4 926.0	15 170.0		
GILWOOD C	4 190.0	0.15		630.0		630.0	549.3	80.7
GILWOOD E	135.0	0.15		20.3		20.3	16.2	4.1
GILWOOD F	100.0	<0.05		4.5		4.5	4.5	
GILWOOD G	150.0	0.15		22.5		22.5	12.9	9.6
GILWOOD H	346.0	0.15		52.0		52.0	26.5	25.5
GILWOOD I	272.0	0.10		27.2		27.2	9.8	17.4
KEG RIVER	2 350.0	0.25		588.0		588.0	524.5	63.5
SANDSTONE A								
KEG RIVER	2 050.0	0.35		718.0		718.0	420.1	297.9
SANDSTONE E								
KEG RIVER	323.0	<0.02		5.5		5.5	5.5	
SANDSTONE F								
KEG RIVER	355.0	<0.03		8.6		8.6	8.6	
SANDSTONE G								
KEG RIVER	192.0	0.25		48.0		48.0	28.8	19.2
SANDSTONE H								
KEG RIVER	130.0	0.25		32.5		32.5	14.3	18.2
SANDSTONE I								
KEG RIVER	223.0	0.03		6.7		6.7	5.0	1.7
SANDSTONE J								
KEG RIVER	29.4	<0.02		0.5		0.5	0.5	
SANDSTONE K								
KEG RIVER	384.0	0.04		15.4		15.4	11.8	3.6
SANDSTONE L								
KEG RIVER	350.0	0.25		87.5		87.5	12.8	74.7
SANDSTONE M								

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
128	2.70	0.120	0.23	0.79	92	846	47	10 792	1 171.2	1982	89 09 - GPP
936	2.61	0.120	0.40	0.91	54	841	59	7 913	1 414.5	1985	89 07
32	3.60	0.170	0.30	0.97	25	912	52	11 039	1 541.8	1988	89 06
65	3.35	0.220	0.20	0.80	89	881	49	9 340	1 404.5	1967	74 04 - ABAND 74 03
792	1.61	0.180	0.18	0.85	53	893	57	10 060	1 391.0	1959	89 10 - GPP
64	2.44	0.130	0.30	0.88	51	870	38	9 450	1 478.0	1977	82 12 - SUSP 84 11
128	2.40	0.135	0.35	0.80	70	886	57	11 118	1 418.7	1982	84 06
64	3.00	0.170	0.45	0.80	66	878	54	10 135	1 405.8	1959	88 12 - SUSP 85 10
186	2.05	0.170	0.41	0.88	48	915	62	9 977	1 425.8	1977	88 01
128	2.34	0.190	0.20	0.86	48	882	62	10 300	1 405.7	1984	85 07 - GPP
128	1.98	0.160	0.37	0.86	48	885	62	10 140	1 409.5	1987	88 12
64	1.20	0.170	0.40	0.80	64	893	54	11 003	1 404.6	1981	84 06 - ABAND 85 10
199	4.82	0.080	0.20	0.70	120	834	58	16 060	1 722.4	1952	89 12
64	1.30	0.060	0.26	0.76	50	897	45	9 952	1 520.4	1952	89 12
128	4.20	0.085	0.20	0.75	86	826	58	16 382	1 735.4	1986	86 10
64	9.50	0.080	0.40	0.68	148	823	59	1 732.3	1985	89 09	
7	53.95	0.087	0.20	0.87	53	870	43	16 810	1 856.5	1968	88 12 - GPP
6	65.87	0.080	0.20	0.87	40	870	64	16 820	1 788.3	1967	89 12 - SUSP 87 08
14	31.80	0.065	0.20	0.83	64	876	64	15 730	1 821.5	1969	79 03 - GPP
34	45.81	0.120	0.17	0.82	79	887	38	16 130	1 832.5	1970	84 12 - GPP
64	11.80	0.076	0.15	0.82	74	887	38	14 710	1 755.6	1970	88 12 - ABAND 82 06
20	25.30	0.075	0.23	0.82	79	887	62	14 212	1 892.0	1984	87 11
64	9.50	0.080	0.25	0.83	64	874	64	12 418	1 689.3	1988	88 10
16	4.88	0.175	0.35	0.77	80	825	56	10 140	1 393.9	1953	58 05 - ABAND 56 06
64	2.50	0.220	0.40	0.77	71	837	44	9 410	1 336.8	1980	84 12 - ABAND 83 02
197	18.70	0.085	0.14	0.80	82	825	54	10 620	1 425.2	1951	81 12
77	15.03	0.044	0.20	0.78	84	839	58	14 070	1 495.7	1951	73 02 - GPP
16	3.30	0.300	0.22	0.98	7	999	32	3 970	574.0	1988	88 10
128	6.30	0.085	0.44	0.92	16	830	54	17 149	1 680.9	1982	85 04
64	12.31	0.082	0.32	0.90	24	840	67	16 666	1 828.8	1984	88 12 - SUSP 85 06
64	12.64	0.090	0.35	0.92	18	860	66	16 972	1 813.7	1985	86 03
64	5.50	0.065	0.35	0.90	32	837	51	15 803	1 725.3	1973	84 02
32 640					65	820	49	18 130	1 708.7	1965	89 12 - GPP
3 392	2.28	0.130	0.34	0.83							
11 968	6.90	0.155	0.32	0.83							
17 280	3.30	0.130	0.36	0.83							
1 831	3.53	0.120	0.35	0.83	56	820	62	18 090	1 790.4	1969	89 02 - GPP
64	3.28	0.124	0.38	0.82	65	821	56	9 628	1 675.8	1979	85 06
64	2.30	0.130	0.37	0.83	61	821	47	7 741	1 678.2	1980	88 12 - SUSP 86 04
128	1.80	0.115	0.32	0.82	65	821	56	10 586	1 680.2	1979	85 06
256	2.12	0.120	0.36	0.83	63	820	62	17 940	1 839.3	1979	88 11
128	3.54	0.134	0.44	0.80	63	819	62	15 376	1 858.3	1984	87 08
1 814	1.46	0.143	0.27	0.85	65	820	56	18 000	1 747.1	1966	79 12 - GPP
493	4.06	0.180	0.33	0.85	55	820	50	15 027	1 733.2	1977	85 06
64	5.00	0.180	0.34	0.85	53	810	54	13 800	1 768.5	1980	86 12 - SUSP 84 06
64	6.40	0.170	0.40	0.85	53	849	52	15 068	1 738.1	1972	88 12 - SUSP 86 02
64	3.40	0.160	0.35	0.85	55	824	43	13 060	1 749.4	1982	83 04
64	1.90	0.180	0.30	0.85	50	830	57	12 622	1 751.0	1982	83 05 - GPP
64	3.50	0.180	0.35	0.85	53	820	52	12 299	1 740.5	1984	87 12 - SUSP 88 10
64	1.50	0.080	0.55	0.85	55	824	44	12 390	1 748.3	1984	84 08 - ABAND 84 11
64	6.10	0.170	0.32	0.85	55	825	47	12 005	1 745.7	1984	86 12
64	4.60	0.200	0.30	0.85	65	825	49	11 796	1 745.8	1985	85 08

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
NIPISI 079-08W5 (CONTINUED)								
KEG RIVER SANDSTONE N	22.4	<0.01		0.1		0.1	0.1	
KEG RIVER SANDSTONE O	298.0	0.25		74.5		74.5	14.2	60.3
NITON 055-12W5								
CARDIUM A	135.0	0.15		20.3		20.3	10.4	9.9
CARDIUM B	137.0	<0.05		6.0		6.0	6.0	
CARDIUM C	230.0	0.10		23.0		23.0	17.6	5.4
CARDIUM D	176.0	<0.01		0.8		0.8	0.8	
CARDIUM E	142.0	0.15		21.3		21.3	10.3	11.0
CARDIUM F	275.0	0.15		41.3		41.3	9.0	32.3
CARDIUM G	187.0	0.15		28.1		28.1	10.5	17.6
CARDIUM H	39.1	<0.01		0.1		0.1		0.1
CARDIUM I	142.0	0.10		14.2		14.2	3.2	11.0
BASAL QUARTZ A	260.0	0.03		7.8		7.8		7.8
BASAL QUARTZ C	168.0	<0.01		0.8		0.8	0.8	
BASAL QUARTZ G	177.0	<0.01		0.1		0.1	0.1	
BASAL QUARTZ K	116.0	0.02		2.3		2.3	2.3	
BASAL QUARTZ M	124.0	0.10		12.4		12.4	2.0	10.4
BASAL QUARTZ I & ROCK CREEK A	100.0	0.15		15.0		15.0	10.3	4.7
ROCK CREEK B	49.0	<0.01		0.1		0.1	0.1	
ROCK CREEK C	139.3	0.08		11.1		11.1	6.7	4.4
ROCK CREEK F TOTAL	6 941.0			1 592.0	1 110.0	2 702.0	1 134.4	1 567.6
PRIMARY AREA	401.0	0.23		92.2		92.2		
WATER FLOOD AREA	6 540.0	0.23	0.17	1 500.0	1 110.0	2 610.0		
ROCK CREEK G	140.0	0.10		14.0		14.0	4.6	9.4
ROCK CREEK H	1 827.0	0.15		274.0		274.0	38.1	235.9
ROCK CREEK I	221.0	0.15		33.2		33.2	23.9	9.3
ROCK CREEK J	72.6	0.10		7.3		7.3	0.6	6.7
NORMANDVILLE 079-22W5								
JURASSIC A	120.0	0.01		1.3		1.3	1.3	
MISSISSIPPIAN B	23.4	0.04		0.9		0.9	0.9	
D-1 A	531.0	0.35		186.0		186.0	172.7	13.3
D-1 B	805.0	<0.01		0.4		0.4	0.4	
D-3 A	412.0	0.46		190.0		190.0	170.7	19.3
D-3 B	563.0	0.33		186.0		186.0	178.7	7.3
GILWOOD A	220.0	0.25		55.0		55.0	12.2	42.8
NORRIS 054-18W4								
LOWER VIKING B	104.0	0.10		10.4		10.4	4.7	5.7
NORTHVILLE 052-10W5								
CARDIUM A	367.0	0.05		18.4		18.4	0.5	17.9
ROCK CREEK A	75.3	<0.01		0.6		0.6	0.6	
JURASSIC A	231.0	0.10		23.1		23.1	3.1	20.0
JURASSIC E	76.1	0.10		7.6		7.6	3.3	4.3
OBERLIN 038-21W4								
MANNVILLE C	197.0	0.04		7.9		7.9	4.6	3.3
OSTON 089-10W5								
KEG RIVER SANDSTONE A	1 410.0	0.05		70.5		70.5	39.1	31.4
KEG RIVER SANDSTONE B	513.0	<0.01		1.6		1.6	1.6	
GRANITE WASH A	279.0	0.25		69.8		69.8	8.6	61.2
OKOTOKS 021-28W4								
WABAMUN A	167.0	<0.01		1.5		1.5	1.5	
OTTER 088-12W5								
SLAVE POINT A	3 000.0	0.20		600.0		600.0	101.3	498.7
GRANITE WASH A	3 679.0	0.20		736.0		736.0	330.5	405.5
GRANITE WASH D	49.7	0.15		7.5		7.5	4.3	3.2
GRANITE WASH F	2 056.0	0.30		617.0		617.0	183.5	433.5
GRANITE WASH I	1 038.0	0.30		311.0		311.0	89.0	222.0
GRANITE WASH J	173.0	0.30		51.9		51.9	7.6	44.3
GRANITE WASH K	161.0	0.20		32.2		32.2	4.1	28.1

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	0.60	0.137	0.50	0.85	52	825	54	11 285	1 743.2	1985	85 10 - SUSP 86 03
64	3.40	0.230	0.30	0.85	52	828	53	11 637	1 749.7	1986	86 05
64	2.72	0.114	0.22	0.87	48	834	57	9 400	1 427.6	1970	87 01
64	6.00	0.056	0.25	0.85	64	865	42	9 402	1 402.9	1984	85 03 - SUSP 86 11
128	2.84	0.100	0.28	0.88	44	856	52	9 086	1 384.4	1984	86 04 - GPP
64	4.00	0.110	0.29	0.88	44	856	52	8 894	1 381.9	1984	88 12 - SUSP 86 07
64	3.35	0.100	0.25	0.88	45	856	52	9 280	1 453.9	1985	86 05
128	4.12	0.080	0.26	0.88	44	856	52	8 666	1 418.7	1985	87 04
64	5.60	0.080	0.26	0.88	44	856	52	10 129	1 422.3	1986	87 04
64	1.60	0.070	0.38	0.88	44	856	52	9 244	1 378.0	1987	87 07 - ABAND 89 03
64	2.97	0.110	0.23	0.88	44	856	52	9 303	1 390.3	1986	86 10
241	1.54	0.160	0.40	0.73	114	839	80	16 440	1 962.0	1968	88 12 - SUSP 89 10
64	3.66	0.150	0.35	0.73	114	839	80	16 440	1 962.0	1968	76 08 - SUSP 70 03
64	4.63	0.130	0.37	0.73	56	900	80	15 940	1 948.6	1979	79 12 - SUSP 79 09
64	3.00	0.120	0.30	0.72	120	892	65	17 235	1 908.9	1981	88 12 - SUSP 86 09
64	2.00	0.150	0.13	0.74	110	832	76		1 937.8	1988	89 01
64	1.52	0.181	0.22	0.73	114	864	76	16 234	1 861.0	1981	88 12
64	1.50	0.110	0.42	0.80	135	883	62	15 299	1 903.8	1985	88 12 - SUSP 86 09
64	4.06	0.113	0.35	0.73	114	864	76	16 139	1 846.7	1981	88 12
2 813					114	839	76	16 270	1 973.0	1965	88 12 - GPP
303	1.96	0.157	0.41	0.73							
2 510	4.43	0.152	0.47	0.73							
64	4.40	0.126	0.46	0.73	115	876	71	15 157	1 910.7	1986	87 04
385	6.59	0.137	0.28	0.73	120	834	70	16 175	1 930.4	1987	89 04
64	4.92	0.170	0.45	0.75	84	879	71	16 160	1 888.0	1974	75 12
64	0.90	0.210	0.25	0.80	93	841	54	14 249	1 948.4	1987	88 11 - GPP
32	3.66	0.150	0.25	0.90	35	921	33	7 270	821.7	1957	61 02 - ABAND 61 11
16	1.52	0.150	0.25	0.84	62	839	37	10 930	1 066.2	1957	61 02 - ABAND 61 11
365	7.04	0.035	0.28	0.82	68	834	53	18 100	1 766.9	1956	85 12 - GPP
64	77.50	0.030	0.34	0.82	66	855	57	13 647	1 755.9	1984	85 04 - SUSP 85 10
65	21.34	0.046	0.19	0.80	77	825	66	21 820	2 049.8	1949	86 12 - GPP
213	14.57	0.031	0.27	0.80	77	825	66	21 750	2 048.0	1958	87 12 - GPP
64	3.72	0.150	0.30	0.88	39	833	68	24 731	2 319.0	1987	88 07
64	3.10	0.130	0.55	0.90	42	874	20	5 436	687.3	1982	83 11
64	11.00	0.130	0.55	0.89	41	868	54	7 630	1 450.5	1981	89 08
64	2.80	0.100	0.40	0.70	150	813	62	17 000	1 982.9	1984	85 07 - SUSP 85 06
64	8.00	0.095	0.35	0.73	120	885	77	16 002	2 032.7	1981	82 03
64	3.21	0.084	0.37	0.70	130	800	62	17 247	1 999.9	1986	86 08
64	2.77	0.160	0.20	0.87	51	870	47	9 970	1 322.2	1974	80 12 - GPP
320	4.80	0.150	0.29	0.86	62	829	49	16 410	1 506.6	1975	79 12 - GPP
65	7.32	0.220	0.42	0.85	50	829	43	16 040	1 491.1	1976	78 11 - ABAND 82 02
64	3.35	0.205	0.27	0.87	39	837	41		1 555.9	1988	89 01
64	6.10	0.100	0.25	0.57	235	811	77	26 200	2 595.9	1978	84 07 - ABAND 83 07
768	9.57	0.065	0.31	0.91	34	833	54	15 837	1 552.7	1981	83 06
1 108	3.06	0.196	0.37	0.88	37	832	43	5 811	1 597.0	1983	87 11
64	0.76	0.191	0.37	0.85	55	840	44	14 756	1 609.0	1983	84 11
601	3.02	0.190	0.33	0.89	36	860	40	16 146	1 594.7	1984	88 09
192	4.25	0.220	0.35	0.89	35	835	44	16 277	1 571.1	1984	86 09
64	3.07	0.183	0.44	0.86	49	829	40	15 922	1 564.4	1986	86 09
64	2.40	0.204	0.41	0.87	38	840	40	15 966	1 578.6	1985	86 03

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
OTTER 088-12W5 (CONTINUED)								
GRANITE WASH M	273.0	<0.02		4.0		4.0	4.0	
GRANITE WASH N	116.0	<0.02		1.2		1.2	1.2	
GRANITE WASH O	109.0	0.20		21.8		21.8		21.8
PADDLE RIVER 057-08W5								
D-2 A	181.0	<0.13		22.2		22.2	22.2	
PAKOWKI LAKE 004-07W4								
SUNBURST A	62.1	<0.01		0.4		0.4	0.4	
SUNBURST B	535.0	0.10		53.5		53.5	11.5	42.0
PANNY 096-06W5								
KEG RIVER A	484.0	0.25		121.0		121.0	63.7	57.3
KEG RIVER B	244.0	0.10		24.4		24.4	12.1	12.3
KEG RIVER C	1 220.0	0.30		366.0		366.0	171.4	194.6
KEG RIVER D	2 600.0	0.40		1 040.0		1 040.0	274.8	765.2
KEG RIVER E	122.0	0.40		48.8		48.8	22.1	26.7
KEG RIVER F	300.0	0.25		75.0		75.0	13.5	61.5
KEG RIVER G	350.0	0.35		122.0		122.0	44.4	77.6
KEG RIVER H	243.0	0.30		72.9		72.9	8.2	64.7
KEG RIVER I	477.0	0.30		143.0		143.0	28.8	114.2
KEG RIVER J	171.0	0.25		42.8		42.8	9.4	33.4
KEG RIVER K	266.0	0.25		66.5		66.5	11.8	54.7
KEG RIVER L	86.6	0.25		21.7		21.7	2.4	19.3
KEG RIVER M	177.0	0.25		44.3		44.3	6.6	37.7
KEG RIVER N	148.0	<0.01		0.2		0.2	0.2	
KEG RIVER O	181.0	<0.01		0.4		0.4	0.4	
KEG RIVER P	312.0	0.25		78.0		78.0	18.6	59.4
KEG RIVER Q	167.0	0.30		50.1		50.1	10.8	39.3
KEG RIVER R	580.0	0.25		145.0		145.0	28.1	116.9
KEG RIVER S	196.0	0.05		9.8		9.8	1.3	8.5
KEG RIVER T	229.0	<0.01		1.0		1.0	1.0	
KEG RIVER U	335.0	0.25		83.8		83.8	15.8	68.0
KEG RIVER V	791.0	0.02		15.8		15.8	3.0	12.8
KEG RIVER W	180.0	0.15		27.0		27.0	2.6	24.4
KEG RIVER X	173.0	<0.01		0.1		0.1		0.1
KEG RIVER Y	871.0	0.25		218.0		218.0	11.8	206.2
KEG RIVER Z	581.0	0.20		116.0		116.0	2.4	113.6
KEG RIVER AA	470.0	0.20		94.0		94.0	4.5	89.5
KEG RIVER BB	123.0	0.10		12.3		12.3	0.1	12.2
PARFLESH 025-22W4								
UPPER MANNVILLE C	101.0	<0.01		0.3		0.3	0.3	
UPPER MANNVILLE D	328.0	0.10		32.8		32.8	11.5	21.3
UPPER MANNVILLE G	1 120.0	0.10	0.38	112.0	426.0	538.0	501.9	36.1
WATER FLOOD								
UPPER MANNVILLE H	34.4	0.20		6.9		6.9	0.5	6.4
LOWER MANNVILLE B	383.0	<0.02		4.3		4.3	4.3	
LOWER MANNVILLE D	211.0	0.05		10.5		10.5	0.5	10.0
PEARCE 009-24W4								
D-2 A	108.0	0.15		16.2		16.2	9.7	6.5
PEARL 030-16W4								
BANFF A	61.2	0.15		9.2		9.2	6.7	2.5
PEAVEY 056-24W4								
MIDDLE VIKING A	529.0	0.20		106.0		106.0	91.5	14.5
MIDDLE VIKING B	52.0	0.10		5.2		5.2	0.2	5.0
BLAIRMORE TOTAL	1 896.0			379.0	63.6	443.0	232.8	210.2
PRIMARY AREA	1 260.0	0.20		252.0		252.0		
WATER FLOOD AREA	636.0	0.20	0.10	127.0	63.6	191.0		
BLAIRMORE B	225.0	<0.01		0.9		0.9	0.9	
BLAIRMORE C	79.3	0.10		7.9		7.9	6.0	1.9
BLAIRMORE F	73.0	0.10		7.3		7.3	0.1	7.2
PECO 047-15W5								
BELLY RIVER C	2 640.0	0.10		264.0		264.0	90.8	173.2
BELLY RIVER D	202.0	0.10		20.2		20.2	1.8	18.4
BELLY RIVER E	402.0	0.10		40.2		40.2	6.4	33.8
BELLY RIVER G	52.6	<0.01		0.1		0.1	0.1	

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	5.16	0.161	0.43	0.90	34	834	43	15 379	1 548.1	1984	87 11 - ABAND 89 04
64	2.73	0.146	0.47	0.86	34	830	43	10 467	1 529.4	1985	87 10 - ABAND 89 03
64	2.40	0.160	0.50	0.89	66	831	39	16 108	1 568.5	1985	89 05
64	8.84	0.053	0.25	0.80	117	876	70	14 130	1 835.2	1954	71 11 - ABAND 78 10
32	1.80	0.190	0.39	0.93	30	923	33	8 731	889.9	1976	83 05 - SUSP 84 05
188	1.89	0.230	0.28	0.91	32	830	40	8 909	930.2	1984	89 10
192	4.64	0.080	0.22	0.87	51	829	38	12 172	1 169.1	1984	85 08
64	5.90	0.080	0.07	0.87	63	831	38	11 527	1 124.3	1984	89 12
128	14.62	0.090	0.17	0.87	51	829	38	13 029	1 239.7	1984	85 04
421	11.38	0.080	0.22	0.87	51	837	38	12 622	1 232.2	1983	85 04
100	3.45	0.059	0.32	0.88	51	829	38	12 209	1 175.3	1984	89 12
64	8.67	0.084	0.26	0.87	52	840	38	12 537	1 178.9	1985	86 07
64	11.99	0.069	0.24	0.87	51	829	38	12 308	1 194.0	1985	86 07
128	7.00	0.054	0.43	0.88	38	828	38	12 000	1 279.9	1985	87 08
64	14.17	0.072	0.16	0.87	52	830	38	11 702	1 148.8	1986	86 06
64	11.70	0.054	0.52	0.88	44	835	28	13 252	1 277.2	1986	87 02
128	7.86	0.049	0.38	0.87	52	834	38	13 107	1 265.5	1985	87 02
64	3.00	0.073	0.29	0.87	52	845	38	13 053	1 264.5	1986	87 02
64	10.80	0.042	0.30	0.87	47	834	37	13 083	1 257.4	1985	86 03
64	7.54	0.061	0.40	0.84	65	834	38	12 404	1 258.2	1986	89 12 - SUSP 87 05
64	6.14	0.088	0.40	0.87	52	829	38	13 559	1 271.0	1986	89 12 - SUSP 87 03
128	6.50	0.060	0.28	0.87	52	825	38	12 736	1 253.5	1987	88 05
64	7.02	0.057	0.25	0.87	52	837	38	9 577	1 181.8	1987	87 04
64	14.50	0.091	0.22	0.88	51	833	38	12 383	1 241.7	1986	87 04
64	7.84	0.075	0.40	0.87	51	829	38	11 723	1 252.5	1987	89 12
64	8.78	0.067	0.30	0.87	52	836	38	11 318	1 165.1	1987	89 12 - SUSP 87 05
64	10.60	0.081	0.30	0.87	51	829	38	12 166	1 255.1	1987	87 05
128	15.40	0.072	0.36	0.87	52	837	38	12 270	1 183.6	1987	89 12
64	10.30	0.056	0.44	0.87	52	829	38	12 387	1 287.8	1987	87 08
64	7.97	0.071	0.45	0.87	52	829	38	12 147	1 194.0	1987	87 08 - ABAND 89 04
64	21.90	0.094	0.24	0.87	52	820	38	11 756	1 149.2	1987	87 12
64	15.20	0.093	0.27	0.88	51	840	38	12 019	1 218.9	1986	87 12
64	16.50	0.080	0.36	0.87	52	837	38	11 476	1 197.4	1988	88 07
64	6.70	0.060	0.45	0.87	52	829	38	13 142	1 271.4	1988	88 09
64	2.00	0.160	0.40	0.82	70	847	49	10 293	1 493.3	1981	83 04 - SUSP 83 04
64	9.50	0.130	0.50	0.83	66	860	37	8 765	1 442.0	1981	83 09
288	2.61	0.230	0.21	0.82	56	858	45	7 970	1 449.3	1963	87 01
16	3.66	0.140	0.50	0.84	66	858	49	9 095	1 462.5	1978	89 05
65	5.49	0.180	0.25	0.80	71	849	46	10 540	1 491.7	1969	83 12 - SUSP 76 11
64	7.00	0.140	0.60	0.84	67	857	43	10 673	1 537.4	1980	84 05 - SUSP 88 01
64	4.64	0.070	0.20	0.65	186	829	51	19 884	2 397.0	1977	88 12 - SUSP 89 05
64	2.13	0.060	0.15	0.88	51	894	38	9 184	1 288.9	1976	88 12 - GPP
146	2.59	0.203	0.25	0.92	37	876	38	6 070	848.0	1951	86 12 - GPP
64	1.30	0.170	0.60	0.92	32	876	32	6 044	851.0	1987	88 06 - SUSP 89 05
400					35	876	43	8 270	1 067.1	1952	86 08
272	3.25	0.206	0.23	0.90							
128	3.48	0.206	0.23	0.90							
32	5.00	0.240	0.35	0.90	42	912	33	7 151	1 074.2	1976	84 03 - SUSP 85 11
16	3.90	0.220	0.32	0.85	32	916	35	6 028	1 071.8	1983	84 03
16	3.90	0.190	0.33	0.92	28	898	40	6 865	1 075.1	1987	88 06 - SUSP 88 04
768	6.78	0.100	0.35	0.78	80	806	52	12 921	2 166.2	1983	85 10
64	5.20	0.120	0.35	0.78	90	799	50	11 921	2 000.2	1984	85 03
128	6.19	0.100	0.35	0.78	52	824	52	13 361	2 205.6	1983	85 03
64	1.80	0.090	0.35	0.78	80	806	52	13 097	2 223.4	1984	89 12 - SUSP 84 11

TABLE 2-4

FIELD POOL	1 INITIAL VOLUME IN PLACE 10 ³ m ³	2 3		4 5 6			7 CUMULATIVE PRODUCTION 10 ³ m ³	8 REMAINING ESTABLISHED RESERVES 10 ³ m ³
		RECOVERY		INITIAL ESTABLISHED RESERVES				
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
		frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³		
PECO 047-15W5 (CONTINUED)								
BELLY RIVER H	547.0	0.10		54.7		54.7	16.5	38.2
BELLY RIVER I	157.0	<0.01		0.1		0.1	0.1	
BELLY RIVER J	200.0	<0.01		0.1		0.1	0.1	
BELLY RIVER K	393.0	0.15		59.0		59.0	1.6	57.4
BELLY RIVER L	154.0	0.10		15.4		15.4	0.1	15.3
BELLY RIVER O	232.0	0.10		23.2		23.2	7.2	16.0
CARDIUM C	228.0	0.10		22.8		22.8	15.4	7.4
CARDIUM D	47.3	0.10		4.7		4.7	0.9	3.8
CARDIUM E	33.4	0.25		5.0		5.0	3.3	1.7
CARDIUM F	38.0	<0.01		0.1		0.1	0.1	
CARDIUM G	199.0	0.10		19.9		19.9	9.3	10.6
CARDIUM H	76.6	0.10		7.7		7.7	2.3	5.4
GETHING B	185.0	0.10		18.5		18.5	4.9	13.6
PEMBINA 048-07W5								
KEYSTONE BELLY RIVER B TOTAL	29 300.0			3 740.0	5 940.0	9 680.0	6 477.7	3 202.3
PRIMARY AREA	2 050.0	0.10		205.0		205.0		
WATER FLOOD AREA	27 200.0	0.13	0.22	3 530.0	5 940.0	9 470.0		
KEYSTONE BELLY RIVER C TOTAL	19 080.0			2 480.0	2 608.0	5 088.0	3 624.8	1 463.2
PRIMARY AREA	3 740.0	0.13		486.0		486.0		
WATER FLOOD AREA	15 340.0	0.13	0.17	1 994.0	2 608.0	4 602.0		
BELLY RIVER G	215.0	<0.14		29.9		29.9	29.9	
BELLY RIVER H	923.0	0.10		92.3		92.3	57.2	35.1
BELLY RIVER I TOTAL	9 540.0			1 310.0	975.0	2 290.0	1 079.4	1 210.6
PRIMARY AREA	4 440.0	0.13		565.0		565.0		
WATER FLOOD AREA	5 100.0	<0.15	0.20	746.0	975.0	1 720.0		
BELLY RIVER J	1 420.0	0.10	0.25	142.0	356.0	498.0	187.1	310.9
WATER FLOOD								
KEYSTONE BELLY RIVER K	208.0	0.15		31.2		31.2	27.2	4.0
KEYSTONE BELLY RIVER L TOTAL	4 296.0			457.0	710.0	1 167.0	537.3	629.7
PRIMARY AREA	1 336.0	0.05		66.8		66.8		
WATER FLOOD AREA	2 960.0	<0.14	0.24	390.0	710.0	1 100.0		
KEYSTONE BELLY RIVER O	340.0	0.15		51.0		51.0	35.7	15.3
KEYSTONE BELLY RIVER P	203.0	0.05		10.2		10.2	0.6	9.6
KEYSTONE BELLY RIVER U TOTAL	12 030.0			1 519.0	1 262.0	2 781.0	1 443.3	1 337.7
PRIMARY AREA	4 442.0	<0.13		561.0		561.0		
WATER FLOOD AREA	7 588.0	<0.13	0.17	958.0	1 262.0	2 220.0		
KEYSTONE BELLY RIVER X TOTAL	8 050.0			644.0	1 320.0	1 970.0	555.8	1 414.2
PRIMARY AREA	1 090.0	0.08		87.2		87.2		
WATER FLOOD AREA	6 960.0	0.08	0.19	557.0	1 320.0	1 880.0		
BELLY RIVER AA	4 808.0	0.04		192.0		192.0	109.8	82.2
BELLY RIVER DD	491.0	0.05		24.6		24.6	2.9	21.7
BELLY RIVER EE	408.0	<0.01		3.2		3.2	3.2	
BELLY RIVER II	1 400.0	0.05		70.0		70.0	61.8	8.2
BELLY RIVER JJ	254.0	<0.03		6.5		6.5	6.4	0.1
BELLY RIVER KK	1 300.0	0.08		104.0	ERSO	104.0	74.9	29.1
KEYSTONE BELLY RIVER LL	79.6	0.10		8.0		8.0	3.2	4.8
BELLY RIVER MM	715.0	0.05		35.8		35.8	27.7	8.1
KEYSTONE BELLY RIVER OO	315.0	<0.01		0.4		0.4	0.4	
BELLY RIVER RR	435.0	0.02		8.7		8.7	4.1	4.6
KEYSTONE BELLY RIVER TT	289.0	0.01		2.9		2.9	1.6	1.3
BELLY RIVER XX	224.0	<0.02		2.4		2.4	2.4	
BELLY RIVER FFF, GGG K2K & S2S TOTAL	13 130.0			896.0	254.0	1 150.0	402.7	747.3
PRIMARY AREA	9 500.0	0.06		570.0		570.0		
WATER FLOOD AREA	3 625.0	0.09	0.07	326.0	254.0	580.0		
BELLY RIVER B2B & C2C	575.0	0.02		11.5		11.5	1.8	9.7
BELLY RIVER BBB	126.0	0.10		12.6		12.6	4.2	8.4

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
128	7.32	0.110	0.32	0.78	80	806	52	12 300	2 190.5	1984	89 05
64	5.80	0.120	0.56	0.80	56	810	61	12 103	1 986.1	1985	85 10 - SUSP 85 11
64	5.00	0.120	0.35	0.80	56	810	61	12 375	2 092.0	1984	85 10 - SUSP 85 09
64	11.00	0.110	0.35	0.78	85	806	50	12 648	2 066.6	1985	85 10
64	4.00	0.140	0.45	0.78	88	830	62	10 258	1 997.8	1985	85 12
64	4.60	0.140	0.25	0.75	111	797	66	11 990	2 242.0	1987	88 07
156	2.60	0.110	0.15	0.60	204	792	92	25 020	2 464.5	1976	85 12
64	1.40	0.110	0.20	0.60	200	791	74	19 300	2 473.2	1981	82 07
108	0.92	0.070	0.20	0.60	200	786	77	27 183	2 481.9	1982	87 12
64	1.20	0.130	0.40	0.63	175	770	62	26 120	2 427.7	1976	88 12 - SUSP 76 08
192	2.21	0.100	0.22	0.60	210	792	77	31 300	2 486.5	1983	85 03 - GPP
64	1.90	0.150	0.30	0.60	210	788	77	12 545	2 442.8	1986	86 10
64	4.00	0.110	0.18	0.80	350	783	100	26 620	3 048.8	1984	84 12
5 920					42	839	39	6 650	978.1	1956	86 06 - GPP
672	4.36	0.150	0.47	0.88							
5 248	6.07	0.194	0.50	0.88							
4 917					41	839	39	6 550	979.3	1959	88 12
1 202	3.35	0.190	0.45	0.89							
3 715	4.44	0.190	0.45	0.89							- GPP
75	3.05	0.150	0.30	0.89	35	834	42	6 900	1 121.7	1955	76 12 - SUSP 83 03
97	8.63	0.200	0.38	0.89	39	820	43	9 170	1 285.0	1955	88 12 - GPP
4 791					65	834	37	8 070	1 083.9	1954	78 04 - GPP
2 464	3.30	0.186	0.67	0.89							
2 327	4.01	0.186	0.67	0.89							
129	9.60	0.200	0.35	0.88	39	820	42	8 270	1 245.7	1958	78 09 - GPP
49	4.27	0.220	0.48	0.87	43	839	38	6 860	937.3	1961	88 12 - GPP
1 152					42	839	37	6 690	926.6	1962	89 12
320	4.20	0.196	0.43	0.89							
832	3.58	0.196	0.43	0.89							
128	2.99	0.200	0.49	0.87	46	839	36	7 450	921.7	1963	88 12 - GPP
64	4.60	0.160	0.50	0.86	45	857	41	6 480	983.7	1955	89 04 - SUSP 89 01
4 168					43	844	41	6 860	1 029.3	1964	89 03
1 857	2.82	0.183	0.48	0.89							
2 310	3.88	0.183	0.48	0.89							
1 856					40	844	42	7 856	1 040.9	1965	86 06
224	5.15	0.180	0.41	0.89							
1 632	5.10	0.179	0.48	0.89							
964	4.85	0.205	0.43	0.88	40	844	41	7 380	972.9	1965	89 10 - GPP
64	8.50	0.180	0.43	0.88	40	844	43	7 240	992.1	1967	85 12 - GPP
65	7.13	0.188	0.46	0.87	43	849	42	6 580	1 047.3	1967	76 12 - ABAND 76 09
605	3.15	0.207	0.60	0.89	65	834	44	7 480	1 035.7	1957	84 12 - GPP
64	4.32	0.190	0.45	0.88	40	844	36	6 450	942.7	1967	81 12 - GPP
192	7.17	0.181	0.40	0.87	41	820	49	8 340	1 312.2	1956	85 09 - GPP
65	1.68	0.165	0.50	0.89	40	839	49	7 760	1 061.3	1968	73 02 - GPP
154	6.10	0.140	0.39	0.89	40	829	42	12 820	1 260.3	1968	77 12 - GPP
65	5.76	0.190	0.50	0.89	44	904	38	6 650	973.5	1974	83 12 - SUSP 78 01
65	6.10	0.200	0.38	0.89	43	829	43	10 290	1 296.9	1959	85 12 - SUSP 88 11
64	4.61	0.200	0.45	0.89	41	844	41	6 070	931.5	1975	81 12 - GPP
64	4.92	0.200	0.60	0.89	62	839	31	6 780	969.6	1978	82 12 - SUSP 85 08
2 624					45	841	32	6 825	990.9	1970	88 11
1 856	6.14	0.180	0.48	0.89							
768	5.56	0.180	0.47	0.89							
128	5.60	0.160	0.43	0.88	40	840	50	7 011	1 179.1	1985	89 12
64	2.00	0.190	0.42	0.89	46	846	22	7 200	940.2	1978	79 05

TABLE 2-4

FIELD POOL	1 INITIAL VOLUME IN PLACE 10 ³ m ³	3 RECOVERY		5 INITIAL ESTABLISHED RESERVES			7 CUMULATIVE PRODUCTION 10 ³ m ³	8 REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY frac	ENHANCED frac	PRIMARY 10 ³ m ³	ENHANCED 10 ³ m ³	TOTAL 10 ³ m ³		
PEMBINA 048-07W5 (CONTINUED)								
BELLY RIVER DDD	3 800.0			570.0	440.0	1 010.0	345.7	664.3
TOTAL								
PRIMARY AREA	1 600.0	0.15		240.0		240.0		
WATER FLOOD AREA	2 200.0	0.15	0.20	330.0	440.0	770.0		
BELLY RIVER JJJ	292.0	0.03		8.8		8.8	3.0	5.8
BELLY RIVER LLL	545.0	0.05		27.3		27.3	20.2	7.1
BELLY RIVER MMM	350.0	<0.01		0.3		0.3	0.3	
BELLY RIVER NNN	217.0	0.05		10.4		10.4	2.1	8.3
BELLY RIVER RRR	315.0	0.02		6.3		6.3	3.6	2.7
BELLY RIVER TTT	1 895.0	0.05		94.8		94.8	28.2	66.6
BELLY RIVER UUU	793.0	0.01		7.9		7.9	2.0	5.9
BELLY RIVER VVV	239.0	<0.01		0.2		0.2	0.2	
BELLY RIVER WWW	125.0	<0.01		0.1		0.1	0.1	
BELLY RIVER XXX	191.0	<0.01		0.1		0.1	0.1	
BELLY RIVER ZZZ	519.0	0.10		51.9		51.9	9.4	42.5
BELLY RIVER A2A	875.0	0.10		87.5		87.5	28.1	59.4
BELLY RIVER E2E	144.0	0.10		14.4		14.4	5.3	9.1
BELLY RIVER G2G	130.0	0.10		13.0		13.0	1.9	11.1
BELLY RIVER L2L	251.0	<0.01		0.9		0.9	0.9	
BELLY RIVER M2M	870.0	0.05		43.5		43.5	6.2	37.3
BELLY RIVER N2N	121.0	0.10		12.1		12.1	0.9	11.2
BELLY RIVER Q2O	320.0	0.02		6.4		6.4	1.8	4.6
BELLY RIVER R2R	133.0	<0.01		0.1		0.1	0.1	
BELLY RIVER U2U	200.0	0.12		24.0		24.0	0.8	23.2
BELLY RIVER W2W	164.0	<0.01		0.1		0.1	0.1	
BELLY RIVER X2X	600.0	0.10		60.0		60.0	2.0	58.0
BELLY RIVER Z2Z	369.0	0.10		36.9		36.9	1.7	35.2
BELLY RIVER A3A	368.0	0.01		3.7		3.7	1.0	2.7
BELLY RIVER B3B	250.0	0.10		25.0		25.0	5.4	19.6
BELLY RIVER E3E	173.0	0.10		17.3		17.3	0.3	17.0
BELLY RIVER F3F	106.0	0.05		5.3		5.3	3.2	2.1
BELLY RIVER G3G	41.0	0.10		4.1		4.1	2.2	1.9
BELLY RIVER H3H	122.0	0.10		12.2		12.2	5.2	7.0
BELLY RIVER L3L	127.0	0.10		12.7		12.7	2.3	10.4
LEA PARK A	335.0	0.15		50.3		50.3	27.1	23.2
CARDIUM TOTAL	1 183 000.0			130 700.0	108 200.0	238 900.0	169 917.8	68 982.2
PRIMARY AREA	278 000.0	<0.09		23 800.0		23 800.0		
SOLVENT FLOOD AREA (LOBSTICK UNIT)	11 000.0	0.14	0.15	1 530.0	1 650.0	3 180.0		
WATER FLOOD AREA	886 700.0	<0.12	0.12	104 700.0	106 300.0	211 000.0		
GAS FLOOD AREA	6 830.0	<0.10	0.04	680.0	273.0	953.0		
CARDIUM B	636.0	0.04		25.4		25.4	20.5	4.9
CARDIUM C	407.0	0.01		4.1		4.1	2.2	1.9
CARDIUM D	211.0	0.05		10.6		10.6	8.3	2.3
CARDIUM E	187.0	0.05		9.4		9.4	5.5	3.9
CARDIUM F	169.0	<0.01		0.3		0.3	0.3	
CARDIUM G	125.0	<0.01		0.2		0.2	0.2	
CARDIUM H	96.9	0.15		14.5		14.5	8.8	5.7
CARDIUM I	320.0	0.10		32.0		32.0	4.9	27.1
CARDIUM J	165.0	0.10		16.5		16.5	1.8	14.7
CARDIUM K	247.0	0.10		24.7		24.7	3.4	21.3
CARDIUM L	363.0	0.15		54.5	ERSO	54.5	26.3	28.2
CARDIUM M	311.0	0.02		6.2		6.2	3.8	2.4
CARDIUM N	240.0	0.03		7.2		7.2	4.0	3.2
CARDIUM O	24.7	0.10		2.5		2.5	0.1	2.4
CARDIUM P	386.0	0.15		57.9		57.9	14.2	43.7
CARDIUM Q	129.0	0.10		12.9		12.9	6.6	6.3
CARDIUM R	79.3	0.10		7.9		7.9	2.8	5.1
SECOND WHITE	100.0	0.10		10.0		10.0	3.3	6.7
SPECKS A								
SECOND WHITE	257.0	0.10		25.7		25.7	5.7	20.0
SPECKS B								
VIKING B	800.0	0.15		120.0		120.0	111.0	9.0
VIKING D	213.0	<0.01		0.1		0.1		0.1
VIKING E	5.6	0.05		0.3		0.3	0.3	
VIKING F	52.2	0.15		7.8		7.8	6.2	1.6
VIKING G	136.0	0.10		13.6		13.6	1.4	12.2
VIKING H	76.3	0.05		3.8		3.8	0.4	3.4
VIKING I	39.0	0.10		3.9		3.9	1.2	2.7
LOBSTICK	55.3	0.15		8.3		8.3	2.7	5.6
GLAUCONITIC J								

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
1 343					65	817	49	10 716	1 447.2	1978	88 04
697	3.14	0.134	0.31	0.79							
646	4.66	0.134	0.31	0.79							
64	4.70	0.170	0.35	0.88	50	854	41	7 750	1 153.1	1979	83 12 - SUSP 88 03
160	3.20	0.190	0.37	0.89	42	847	45	6 536	908.0	1981	86 12 - GPP
64	6.30	0.150	0.35	0.89	48	840	36	5 829	865.7	1981	82 05 - SUSP 84 02
64	2.70	0.220	0.36	0.89	55	846	40	6 612	995.7	1981	83 12 - GPP
32	8.30	0.212	0.35	0.86	52	862	41	5 757	856.5	1982	86 12 - GPP
320	6.93	0.200	0.52	0.89	66	853	37	7 645	1 046.8	1980	89 12 - GPP
128	5.46	0.210	0.40	0.90	65	901	41	6 160	904.0	1983	86 12 - GPP
64	4.60	0.140	0.30	0.83	65	845	52	7 625	1 137.9	1983	86 12 - SUSP 84 06
32	4.40	0.180	0.45	0.90	52	857	41	6 612	901.5	1983	84 03 - SUSP 84 07
64	3.00	0.150	0.20	0.83	65	848	52	7 423	1 161.5	1983	86 12 - SUSP 84 05
64	9.10	0.180	0.45	0.90	65	837	41	6 679	983.0	1958	84 09
473	3.02	0.130	0.38	0.76	65	849	52	9 697	1 345.0	1979	88 06
64	3.20	0.135	0.40	0.87	52	817	49	9 223	1 277.9	1980	86 03 - GPP
32	4.40	0.180	0.40	0.85	67	839	36	6 108	910.5	1984	86 07 - SUSP 87 11
64	4.90	0.180	0.50	0.89	46	849	36	5 633	1 025.0	1984	87 12 - SUSP 87 06
128	6.42	0.170	0.30	0.89	66	822	37	8 039	1 090.2	1985	87 07
64	1.99	0.178	0.40	0.89	90	885	44	8 750	1 250.6	1985	86 06 - GPP
64	5.40	0.160	0.35	0.89	66	822	39	8 912	1 056.8	1985	89 12
64	2.94	0.131	0.35	0.83	72	829	39	12 716	1 441.3	1985	86 07 - ABAND 88 09
64	3.86	0.175	0.48	0.89	46	849	36	6 318	963.9	1986	86 08
64	2.75	0.161	0.35	0.89	48	867	25	8 345	1 075.1	1986	86 10 - ABAND 88 10
64	9.86	0.178	0.40	0.89	39	834	43	10 025	1 197.4	1959	87 01 - SUSP 87 12
64	6.00	0.180	0.40	0.89	65	822	38	7 998	1 068.0	1984	87 04
64	5.50	0.180	0.30	0.83	75	813	32	8 937	1 226.3	1976	87 04 - GPP
64	5.00	0.180	0.38	0.70	150	791	50	10 014	1 377.8	1979	80 03
64	6.90	0.150	0.70	0.87	49	840	40	10 778	1 256.2	1987	87 12 - SUSP 89 09
32	3.77	0.181	0.45	0.88	50	847	41	7 053	1 100.8	1975	88 01 - GPP
32	2.09	0.172	0.60	0.89	50	870	36	6 303	947.8	1987	88 02
32	4.50	0.190	0.50	0.89	50	848	36	8 915	991.7	1987	88 03
32	5.24	0.166	0.47	0.86	45	857	41	6 087	932.5	1987	88 08
83	4.20	0.150	0.20	0.80	166	798	52	15 403	1 447.4	1985	88 12
191 669					96	834	46	18 890		1953	88 12 - GPP
49 291	6.77	0.121	0.15	0.81							
908	12.98	0.128	0.10	0.81							
138 489	6.14	0.143	0.10	0.81							
2 981	2.62	0.127	0.15	0.81							
194	4.05	0.116	0.15	0.82	96	834	60	12 410	1 213.7	1963	83 12 - GPP
65	7.01	0.130	0.15	0.81	82	834	44	10 280	1 339.0	1974	78 12 - GPP
64	4.36	0.109	0.15	0.81	80	834	46	18 620	1 806.2	1976	82 12 - GPP
64	2.70	0.150	0.11	0.81	83	834	53	17 540	1 840.1	1978	85 12 - GPP
64	3.49	0.110	0.15	0.81	80	834	50	17 733	1 760.6	1981	83 12 - SUSP 83 09
64	2.81	0.101	0.15	0.81	80	834	56	16 588	1 620.8	1981	82 11 - SUSP 84 01
64	2.00	0.110	0.15	0.81	80	840	40	15 689	1 226.4	1982	86 12
64	5.60	0.120	0.20	0.93	28	873	38	14 445	1 132.2	1983	84 04
64	3.40	0.110	0.15	0.81	80	834	50	15 100	1 844.0	1983	84 04 - SUSP 88 02
64	4.88	0.115	0.15	0.81	80	834	50	17 758	1 763.3	1984	85 03
38	7.62	0.160	0.15	0.91	55	835	44	17 790	1 463.9	1984	89 05
64	5.70	0.110	0.10	0.86	53	845	58	19 449	1 744.5	1983	87 12
64	4.20	0.125	0.15	0.84	61	856	56	19 070	1 761.0	1984	87 12
64	0.40	0.140	0.15	0.81	125	830	56	18 400	1 671.8	1984	84 08
128	3.75	0.110	0.15	0.86	55	835	44	20 565	1 670.4	1986	89 01 - GPP
64	2.00	0.140	0.15	0.85	57	875	51	16 046	1 195.8	1987	87 12
64	1.20	0.150	0.15	0.81	84	865	45	15 986	1 367.9	1985	86 01 - GPP
64	2.00	0.140	0.30	0.80	85	870	60	19 461	1 799.0	1984	84 09
64	4.30	0.180	0.27	0.71	135	838	53	24 720	1 716.7	1985	86 03
2 010	1.42	0.056	0.26	0.68	156	810	65	18 894	1 931.4	1982	85 08
64	5.20	0.160	0.55	0.89	40	830	40	10 760	1 583.0	1983	89 12 - SUSP 83 09
64	0.23	0.074	0.26	0.69	136	810	74	17 000	1 984.8	1984	86 08 - ABAND 86 02
64	1.35	0.120	0.26	0.71	150	810	74	17 670	1 989.9	1983	87 12
64	3.20	0.120	0.34	0.84	60	768	58	10 773	1 716.2	1985	87 05
64	1.40	0.150	0.20	0.71	150	810	82	17 459	1 980.2	1986	88 02
64	1.60	0.080	0.30	0.68	149	832	55	12 036	1 742.3	1987	88 02
64	1.50	0.120	0.40	0.80	90	876	48	14 047	1 630.3	1981	89 12 - GPP

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
PEMBINA 048-07W5 (CONTINUED)								
GLAUCONITIC K	318.0	0.01		3.2		3.2	0.2	3.0
LOBSTICK	256.0	<0.01		0.1		0.1	0.1	
GLAUCONITIC N								
LOBSTICK	† 320.0	0.05		66.0		66.0	42.3	23.7
GLAUCONITIC P								
LOBSTICK	164.0	<0.01		0.1		0.1	0.1	
GLAUCONITIC Q								
LOBSTICK	1 629.0	0.15		244.0		244.0	115.2	128.8
GLAUCONITIC R								
GLAUCONITIC T	608.0	0.05		30.4		30.4	0.9	29.5
GLAUCONITIC Y	152.0	0.10		15.2		15.2	4.3	10.9
GLAUCONITIC Z	330.0	0.01		3.3		3.3	0.5	2.8
GLAUCONITIC BB	326.0	0.10		32.6		32.6	2.7	29.9
GLAUCONITIC CC	341.0	0.03		10.2		10.2	0.7	9.5
GLAUCONITIC DD	174.0	0.10		17.4		17.4	1.2	16.2
GLAUCONITIC EE	262.0	0.10		26.2		26.2	0.8	25.4
GLAUCONITIC FF	62.1	0.10		6.2		6.2	0.6	5.6
GLAUCONITIC GG	36.8	0.15		5.5		5.5	1.4	4.1
GLAUCONITIC HH	113.0	0.05		5.7		5.7	0.8	4.9
GLAUCONITIC II	91.6	0.10		9.2		9.2		9.2
LOBSTICK	126.0	0.10		12.6		12.6	3.9	8.7
GLAUCONITIC F, L & M								
OSTRACOD D	239.0	<0.04		8.4		8.4	8.4	
OSTRACOD E TOTAL	3 567.0			445.0	790.0	† 235.0	670.0	565.0
PRIMARY AREA	132.0	0.25		33.0		33.0		
WATER FLOOD AREA	3 435.0	0.12	0.23	412.0	790.0	† 202.0		
OSTRACOD F	185.0	0.10		18.5		18.5	8.8	9.7
OSTRACOD G	400.0	0.21		84.0	ERSO	84.0	64.2	19.8
OSTRACOD H	23.4	<0.01		0.2		0.2	0.2	
OSTRACOD K	351.0	0.10		35.1		35.1	15.6	19.5
OSTRACOD M	103.0	<0.01		0.8		0.8	0.8	
OSTRACOD N	37.1	<0.01		0.1		0.1	0.1	
OSTRACOD O	46.0	0.05		2.3		2.3	0.3	2.0
KEYSTONE ELLERSLIE A	800.0	0.25		200.0	ERSO	200.0	164.8	35.2
ELLERSLIE D	155.0	0.10		15.5		15.5	1.8	13.7
ELLERSLIE E	423.0	0.03		12.7		12.7	7.3	5.4
ELLERSLIE I	129.0	0.10		12.9		12.9	4.9	8.0
ELLERSLIE L	266.0	<0.01		0.2		0.2	0.2	
ELLERSLIE N	28.2	<0.01		0.2		0.2	0.2	
ELLERSLIE O	246.0	<0.01		0.1		0.1	0.1	
ELLERSLIE P	72.0	0.10		7.2		7.2		7.2
ELLERSLIE F	227.0	<0.01		0.2		0.2	0.2	
JURASSIC C & D								
ELLERSLIE G, K, M & S	4 677.0	0.04		187.0		187.0	71.7	† 115.3
JURASSIC E								
JURASSIC A	690.0	0.02		13.8		13.8	7.8	6.0
JURASSIC B	242.0	0.10		24.2		24.2	10.3	13.9
JURASSIC F	438.0	0.02		8.8		8.8	2.9	5.9
JURASSIC G	95.7	0.10		9.6		9.6	1.3	8.3
JURASSIC H	296.0	0.05		14.8		14.8	0.2	14.6
JURASSIC J	408.0	0.10		40.8		40.8	6.2	34.6
JURASSIC K	300.0	0.10		30.0		30.0	12.4	17.6
JURASSIC L	76.8	<0.01		0.1		0.1	0.1	
JURASSIC M	209.0	<0.01		0.9		0.9	0.9	
JURASSIC N	172.0	0.10		17.2		17.2	1.6	15.6
JURASSIC O	180.0	0.10		18.0		18.0	0.4	17.6
JURASSIC P	271.0	0.01		2.7		2.7	0.7	2.0
JURASSIC Q	315.0	0.10		31.5		31.5	3.9	27.6
JURASSIC R	949.0	0.10		94.9		94.9	19.8	75.1
JURASSIC S	213.0	0.10		21.3		21.3	1.1	20.2
JURASSIC T	185.0	0.10		18.5		18.5	5.8	12.7
JURASSIC U	95.0	<0.01		0.1		0.1	0.1	
JURASSIC V	167.0	0.10		16.7		16.7	3.8	12.9
PEKISKO A	118.0	<0.12		13.8		13.8	13.8	
PEKISKO B	98.6	0.10		9.9		9.9	1.6	8.3
BANFF A	705.0	<0.01		0.4		0.4	0.4	
BANFF B	525.0	<0.01		0.1		0.1	0.1	
BANFF C	104.0	<0.01		0.1		0.1	0.1	
BLUERIDGE A	650.0	0.15		97.5		97.5	50.3	47.2
BLUERIDGE B	364.0	<0.01		1.3		1.3	1.3	
BLUERIDGE C	199.0	<0.02		2.8		2.8	2.8	

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	9.40	0.110	0.40	0.80	88	829	64	13 040	1 890.8	1981	89 12
64	8.00	0.120	0.48	0.80	85	889	68	12 905	1 602.5	1980	84 12 - SUSP 82 08
320	8.49	0.116	0.41	0.71	110	871	66	12 039	1 560.0	1982	86 12 - GPP
64	4.10	0.130	0.40	0.80	85	860	56	12 814	1 870.9	1984	85 01 - SUSP 85 07
484	4.61	0.120	0.23	0.79	92	850	52	13 116	1 601.6	1984	89 09
128	9.81	0.110	0.45	0.80	85	877	65	12 365	1 777.3	1985	88 03
64	3.20	0.130	0.26	0.77	95	866	62	12 441	1 643.0	1986	87 04
128	3.58	0.120	0.25	0.80	92	850	52	12 988	1 601.5	1985	87 07
64	8.48	0.100	0.25	0.80	75	868	57	12 450	1 675.0	1986	87 12
64	9.00	0.120	0.36	0.77	95	866	62		1 052.7	1988	89 12
64	5.20	0.100	0.32	0.77	95	866	62	12 000	1 639.2	1987	88 08
64	6.44	0.103	0.20	0.77	95	866	62	13 675	1 614.0	1987	88 08
64	1.80	0.110	0.29	0.69	140	856	64	18 679	1 834.5	1988	89 02
64	1.01	0.100	0.28	0.79	92	850	52		1 628.5	1987	89 09 - GPP
32	5.08	0.120	0.27	0.79	92	850	52		1 637.9	1988	89 09 - GPP
64	2.10	0.112	0.21	0.77	95	866	62		1 594.0	1987	89 10
64	2.63	0.120	0.21	0.79	75	876	60	12 362	1 616.1	1980	89 09 - GPP
336	1.83	0.090	0.40	0.72	160	839	49	19 170	1 757.8	1975	89 12 - SUSP 87 08
3 257					123	840	57	15 866	1 618.2	1979	89 12
128	1.10	0.160	0.22	0.75							
3 129	1.22	0.160	0.25	0.75							
64	3.98	0.120	0.16	0.72	140	840	64	15 637	1 579.7	1980	88 12
965	0.83	0.100	0.30	0.71	105	810	57	14 953	1 729.7	1979	85 01
64	0.70	0.110	0.34	0.72	140	840	48	13 988	1 626.2	1981	82 08 - SUSP 85 07
64	5.80	0.150	0.16	0.75	109	888	64	15 851	1 591.0	1982	83 05
64	2.80	0.150	0.50	0.77	99	910	60	16 772	1 665.8	1984	88 12 - ABAND 89 08
64	1.10	0.120	0.43	0.77	99	879	60	16 016	1 636.8	1984	85 06 - ABAND 85 07
64	1.60	0.110	0.44	0.73	120	793	58	13 980	1 620.8	1980	85 08
333	2.90	0.140	0.20	0.74	115	865	69	15 550	1 769.5	1957	89 12
64	4.80	0.090	0.30	0.80	99	832	46	17 794	2 323.3	1978	81 12 - SUSP 88 06
64	14.00	0.090	0.30	0.75	99	832	46	17 961	2 319.5	1980	84 12
64	2.80	0.130	0.25	0.74	116	863	67	14 728	1 561.1	1983	83 07
64	6.90	0.134	0.40	0.75	110	860	60	16 835	2 075.5	1984	85 01 - SUSP 85 03
64	1.20	0.070	0.30	0.75	115	855	60	21 103	2 243.3	1985	89 12 - SUSP 87 02
64	6.10	0.129	0.34	0.74	110	870	55	15 957	1 688.1	1987	88 01 - ABAND 88 05
64	1.40	0.130	0.24	0.81	75	895	64	17 585	1 766.9	1988	88 09
64	6.13	0.120	0.30	0.69	155	850	50	14 760	2 110.0	1981	83 03 - SUSP 82 08
1 510	4.90	0.140	0.39	0.74	99	870	60	15 694	1 695.7	1982	88 01
64	17.50	0.110	0.30	0.80	91	870	37	12 993	2 298.8	1979	88 12 - GPP
64	5.20	0.130	0.30	0.80	80	848	78	19 557	2 277.1	1980	82 11
128	6.09	0.090	0.22	0.80	176	830	79	18 950	2 383.6	1982	86 12
64	4.00	0.085	0.45	0.80	83	896	70	13 237	2 082.0	1982	83 11
64	7.40	0.120	0.35	0.80	90	895	51		1 756.6	1988	89 03
303	2.49	0.130	0.48	0.80	92	865	50	15 579	1 737.5	1983	89 11
64	5.25	0.162	0.31	0.80	176	826	79	19 999	2 263.3	1985	85 11
64	2.00	0.150	0.50	0.80	80	860	60	16 565	1 958.5	1984	85 01 - SUSP 85 06
64	4.50	0.145	0.41	0.85	92	895	55	15 050	1 770.8	1985	86 05 - ABAND 87 09
64	3.31	0.164	0.38	0.80	90	885	44	15 625	1 776.6	1986	86 06
64	7.50	0.086	0.34	0.66	176	828	79	20 052	2 269.8	1985	86 07 - GPP
64	8.72	0.098	0.25	0.66	176	828	25	18 840	2 294.5	1985	89 12
64	9.60	0.100	0.36	0.80	176	828	79	18 086	2 279.6	1986	86 12
326	3.37	0.180	0.40	0.80	90	871	60	15 751	1 799.4	1986	88 03
64	6.72	0.087	0.29	0.80	176	828	79	22 027	2 263.5	1987	87 08
64	2.70	0.180	0.15	0.70	140	810	79	14 759	2 490.4	1978	80 11
64	2.30	0.130	0.25	0.66	176	828	79	14 775	2 454.6	1986	88 09 - ABAND 89 07
64	5.50	0.120	0.40	0.66	176	828	79	17 210	2 512.8	1981	88 11
65	1.83	0.150	0.20	0.83	53	910	88	19 620	1 868.4	1960	64 04 - SUSP 69 11
32	6.10	0.094	0.36	0.84	61	915	65	14 486	1 910.3	1986	87 05 - GPP
64	10.00	0.200	0.32	0.81	75	880	60	17 285	1 641.0	1981	82 04 - ABAND 83 01
64	9.00	0.150	0.25	0.81	88	866	32	18 684	1 585.4	1983	83 11 - ABAND 83 10
64	3.06	0.113	0.42	0.81	84	866	56	17 370	1 689.8	1984	85 07 - ABAND 89 08
145	15.10	0.065	0.25	0.61	138	816	83	25 639	2 606.1	1977	79 08
64	22.10	0.050	0.22	0.66	162	811	83	17 343	2 796.0	1979	81 01 - ABAND 83 11
64	11.80	0.050	0.20	0.66	162	790	83	19 443	2 712.5	1979	84 12 - ABAND 85 08

TABLE 2-4

FIELD POOL	1 INITIAL VOLUME IN PLACE 103m3	3 RECOVERY		5 INITIAL ESTABLISHED RESERVES			7 CUMULATIVE PRODUCTION 103m3	8 REMAINING ESTABLISHED RESERVES 103m3
		PRIMARY frac	ENHANCED frac	PRIMARY 103m3	ENHANCED 103m3	TOTAL 103m3		
PEMBINA 048-07W5 (CONTINUED)								
BLUERIDGE D	410.0	0.15		61.5		61.5	22.8	38.7
NISKU A	3 000.0	0.40	0.35	1 200.0	1 050.0	2 250.0	1 292.4	957.6
SOLVENT FLOOD								
NISKU B WATER FLOOD	80.0	0.20	0.15	16.0	12.0	28.0	17.2	10.8
NISKU C WATER FLOOD	2 200.0	0.30	0.20	660.0	440.0	1 100.0	682.2	417.8
NISKU D	4 800.0	0.40	0.32	1 920.0	1 540.0	3 460.0	2 394.5	1 065.5
SOLVENT FLOOD								
NISKU E WATER FLOOD	700.0	0.20	0.13	140.0	90.0	230.0	179.9	50.1
NISKU F	2 100.0	0.35	0.27	735.0	565.0	1 300.0	315.0	985.0
SOLVENT FLOOD								
NISKU G	2 650.0	0.40	0.37	1 060.0	980.0	2 040.0	1 517.9	522.1
SOLVENT FLOOD								
NISKU H WATER FLOOD	450.0	0.30	0.22	135.0	99.0	234.0	111.3	122.7
NISKU I WATER FLOOD	750.0	0.20	0.20	150.0	150.0	300.0	135.5	164.5
NISKU J WATER FLOOD	1 200.0	0.35	0.12	420.0	144.0	564.0	309.3	254.7
NISKU K	2 600.0	0.40	0.40	1 040.0	1 040.0	2 080.0	1 296.7	783.3
SOLVENT FLOOD								
NISKU L	5 000.0	0.25	0.57	1 250.0	2 850.0	4 100.0	2 373.2	1 726.8
SOLVENT FLOOD								
NISKU M	2 850.0	0.40	0.35	1 140.0	998.0	2 140.0	1 353.5	786.5
SOLVENT FLOOD								
NISKU N WATER FLOOD	1 600.0	0.35	0.10	560.0	160.0	720.0	309.8	410.2
NISKU O	1 700.0	0.40	0.33	680.0	650.0	1 240.0	671.7	568.3
SOLVENT FLOOD								
NISKU P	4 250.0	0.40	0.38	1 700.0	1 615.0	3 315.0	1 849.4	1 465.6
SOLVENT FLOOD								
NISKU Q	2 800.0	0.40	0.44	1 120.0	1 230.0	2 350.0	1 003.0	1 347.0
SOLVENT FLOOD								
NISKU R WATER FLOOD	400.0	0.30	0.18	120.0	72.0	192.0	125.7	66.3
NISKU S WATER FLOOD	700.0	0.40	0.10	280.0	70.0	350.0	236.7	113.3
NISKU T	704.0	0.20		141.0		141.0	5.1	135.9
NISKU V	41.8	0.20		8.4		8.4	2.3	6.1
PENDANT D'OREILLE 003-08W4								
MANNVILLE F	170.0	<0.01		0.2		0.2	0.2	
PENHOLD 036-27W4								
VIKING A	125.0	<0.03		3.7		3.7	3.7	
VIKING B	680.0	0.15		102.0		102.0	67.8	34.2
VIKING C	40.4	<0.01		0.1		0.1		0.1
VIKING D	83.9	<0.01		0.4		0.4		
VIKING E	709.0	0.05		35.5		35.5	10.7	24.8
VIKING G	38.1	0.20		7.6		7.6	3.2	4.4
UPPER MANNVILLE A	66.7	0.10		6.7		6.7	1.5	5.2
LOWER MANNVILLE A	1 490.0	0.06		89.4		89.4	54.9	34.5
LOWER MANNVILLE D	206.0	0.10		20.6		20.6	2.7	17.9
LOWER MANNVILLE E	296.0	0.10		29.6		29.6	6.8	22.8
LOWER MANNVILLE F	76.9	0.10		7.6		7.6	5.3	2.3
D-2 A	408.0	<0.03		10.1		10.1	10.1	
D-2 B	163.0	0.25		40.8		40.8	8.1	32.7
D-3 A	183.0	<0.02		3.4		3.4	3.4	
PINCHER CREEK 005-30W4								
LOWER MANNVILLE A	377.0	0.10		37.7		37.7	0.2	37.5
LOWER MANNVILLE B	77.6	0.10		7.8		7.8	0.2	7.6
PINE CREEK 057-19W5								
BELLY RIVER A	87.0	0.10		8.7		8.7	0.6	8.1
BELLY RIVER B	212.0	0.10		21.2		21.2	1.3	19.9
CARDIUM L	64.6	0.10		6.5		6.5	5.1	1.4
CARDIUM N	151.0	0.10		15.1		15.1	5.0	10.1
CARDIUM O	157.0	0.10		15.7		15.7	1.6	14.1
CARDIUM Q	29.3	0.10		2.9		2.9	1.1	1.8
CARDIUM T	30.1	0.10		3.0		3.0	0.2	2.8
CARDIUM H & I	6 100.0	0.10		610.0		610.0	346.7	263.3
CARDIUM J & K	22.8	0.10		2.3		2.3	1.7	0.6
CARDIUM P & S	389.0	0.10		38.9		38.9	23.9	15.0
SECOND WHITE SPECKS A	2 860.0	0.10		286.0	ERSO	286.0	241.9	44.1

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATM	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	30.20	0.059	0.41	0.61	210	829	84	22 635	2 587.3	1981	82 04
105	68.69	0.080	0.20	0.65	185	806	100	33 900	3 005.4	1977	88 04
34	7.47	0.085	0.26	0.50	318	780	99	30 175	2 911.0	1977	84 09
145	18.90	0.130	0.13	0.71	145	825	84	26 210	2 640.8	1977	89 12
143	39.00	0.120	0.10	0.80	140	841	82	25 781	2 583.7	1978	86 06
77	40.00	0.040	0.20	0.71	121	834	84	28 230	2 717.6	1977	82 09
170	16.66	0.119	0.18	0.76	89	852	83	26 640	2 550.2	1978	88 04
198	32.20	0.080	0.20	0.65	123	810	96	28 000	2 908.2	1978	89 02
76	10.12	0.095	0.12	0.70	148	833	89	27 173	2 767.7	1978	84 01
53	54.60	0.047	0.21	0.70	115	811	94	25 007	2 903.5	1978	85 08
69	52.40	0.066	0.25	0.67	142	809	90	27 730	2 791.0	1978	80 09
51	73.30	0.127	0.18	0.67	147	808	92	29 060	2 886.1	1978	87 04
253	30.10	0.105	0.12	0.71	124	821	93	28 620	2 869.7	1978	85 09
80	65.00	0.087	0.09	0.69	140	820	92	28 452	2 845.5	1979	83 07
85	29.13	0.110	0.11	0.66	164	809	88	27 460	2 757.5	1979	85 12
140	18.93	0.118	0.16	0.65	148	809	88	30 861	2 844.3	1979	87 12
170	42.34	0.103	0.09	0.63	186	800	93	28 992	2 905.0	1979	87 05
122	33.86	0.098	0.09	0.76	150	819	91	28 719	2 871.5	1980	85 05
64	10.86	0.095	0.11	0.68	148	827	89	27 299	2 762.4	1980	84 01
35	35.42	0.096	0.16	0.70	127	831	84	26 542	2 632.0	1981	84 01
64	29.86	0.060	0.11	0.69	121	834	84		2 653.5	1988	89 05
64	2.60	0.050	0.25	0.67	166	807	88		2 685.6	1988	89 11
65	2.44	0.200	0.35	0.83	80	855	38	8 270	910.4	1969	70 09 - ABAND 70 06
64	3.13	0.110	0.30	0.81	78	849	51	8 630	1 680.4	1976	79 09 - SUSP 81 12
1 078	1.25	0.100	0.36	0.79	65	850	55	8 953	1 696.2	1981	87 03
64	1.50	0.130	0.60	0.81	66	812	68	10 140	1 748.3	1983	84 09 - ABAND 84 10
64	1.30	0.180	0.30	0.80	76	820	66	10 569	1 678.4	1982	84 12 - ABAND 85 10
256	5.02	0.100	0.31	0.80	76	837	60	7 695	1 710.2	1982	88 05
64	1.50	0.070	0.30	0.81	60	831	64	7 645	1 714.5	1986	89 12
64	1.50	0.110	0.19	0.78	91	879	70	13 956	1 860.1	1988	88 08
231	7.40	0.130	0.14	0.78	91	877	69	14 760	1 885.2	1960	79 08 - GPP
64	4.00	0.120	0.14	0.78	91	830	69	16 068	1 986.5	1986	86 11
192	2.08	0.130	0.27	0.78	91	847	69	12 875	1 979.2	1986	88 03
64	2.30	0.100	0.33	0.78	91	830	69	13 393	2 035.4	1986	87 05
192	6.40	0.060	0.21	0.70	160	805	82	20 930	2 299.8	1961	83 07 - ABAND 84 01
64	9.04	0.055	0.28	0.71	154	806	83	21 101	2 303.0	1985	86 04 - SUSP 89 05
65	5.18	0.109	0.17	0.60	217	825	77	20 410	2 312.5	1968	75 12 - SUSP 75 04
64	11.80	0.120	0.46	0.77	95	845	65	16 036	2 922.7	1983	85 02
64	3.30	0.090	0.47	0.77	95	845	65	15 647	2 875.2	1983	85 02
64	1.80	0.130	0.30	0.83	68	837	55	7 824	1 483.5	1957	85 10 - SUSP 88 12
64	5.00	0.160	0.50	0.83	64	812	50	11 626	1 476.3	1986	88 01
64	2.20	0.087	0.15	0.62	190	821	60	19 768	1 801.7	1980	82 03
64	3.20	0.150	0.30	0.70	135	820	65	19 991	1 786.5	1981	82 02
64	4.20	0.120	0.36	0.76	185	793	86	21 727	1 956.5	1985	85 08
64	1.90	0.053	0.35	0.70	167	802	73	19 860	2 200.2	1987	88 02
64	0.80	0.120	0.30	0.70	180	795	71	19 880	1 935.4	1984	85 12
4 160	2.24	0.110	0.15	0.70	167	805	68	21 745	1 976.2	1974	82 02
64	1.20	0.050	0.15	0.70	150	824	64	22 654	2 037.2	1980	81 09 - GPP
960	1.37	0.070	0.34	0.64	185	793	86	22 082	2 134.0	1986	89 03
1 066	10.00	0.042	0.10	0.71	127	815	77	27 188	2 263.7	1973	79 01

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE 10 ³ m ³	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION 10 ³ m ³	REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
		frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³		
PINE CREEK 057-19W5 (CONTINUED)								
SECOND WHITE SPECKS C	384.0	<0.01		3.2		3.2	3.2	
SECOND WHITE SPECKS D	258.0	0.15		38.7		38.7	10.3	28.4
SECOND WHITE SPECKS E	339.0	0.15		50.8		50.8	8.1	42.7
D-3 C	113.0	<0.28		31.5		31.5	31.5	
PINE NORTH-WEST 058-20W5								
SECOND WHITE SPECKS A	894.0	0.02		17.9		17.9	8.6	9.3
PINEDALE 054-16W4								
VIKING A	70.5	<0.01		0.1		0.1	0.1	
POLLOCKVILLE 026-10W4								
BANFF A	94.6	<0.01		0.1		0.1	0.1	
POUCE COUPE 080-12W6								
CHARLIE LAKE A	114.0	<0.01		0.3		0.3	0.3	
BOUNDARY A	132.0	<0.01		0.1		0.1	0.1	
HALFWAY A	153.0	<0.01		0.1		0.1	0.1	
HALFWAY B	124.0	<0.01		0.2		0.2	0.2	
HALFWAY C	616.0	0.15		92.4		92.4	23.8	68.6
HALFWAY D	458.0	0.10		45.8		45.8	2.7	43.1
DOIG A	255.0	0.10		25.5		25.5	2.3	23.2
POUCE COUPE SOUTH 078-12W6								
BOUNDARY B TOTAL	9 078.0			998.0	470.0	1 468.0	432.6	1 035.4
PRIMARY AREA	3 856.0	0.11		424.0		424.0		
WATER FLOOD AREA	5 222.0	0.11	0.09	574.0	470.0	1 044.0		
BOUNDARY C	133.0	0.10		13.3		13.3	11.4	1.9
BOUNDARY D	67.8	<0.03		1.5		1.5	1.5	
BOUNDARY E	113.0	0.10		11.3		11.3	4.9	6.4
BOUNDARY F	125.0	0.10		12.5		12.5	4.1	8.4
BDY A & CH LK B	2 950.0			295.0	170.0	465.0	179.2	285.8
TOTAL								
PRIMARY AREA	1 950.0	0.10		195.0		195.0		
WATER FLOOD AREA	998.0	0.10	0.17	99.8	170.0	270.0		
DOIG C	219.0	0.10		21.9		21.9	4.2	17.7
PREVO 039-01W5								
VIKING A	160.0	0.20		32.0		32.0	30.3	1.7
VIKING B	64.5	0.20		12.9		12.9	9.1	3.8
VIKING D	56.8	0.25		14.2		14.2	8.2	6.0
VIKING E	24.4	0.15		3.7		3.7	2.2	1.5
VIKING G	64.6	0.15		9.7		9.7	4.2	5.5
VIKING H	310.0	0.10		31.0		31.0	16.3	14.7
UPPER MANNVILLE A	106.0	0.06		6.4		6.4	5.3	1.1
UPPER MANNVILLE B	1 200.0	0.15		180.0		180.0	46.0	134.0
LOWER MANNVILLE C	359.0	0.10		35.9		35.9	11.5	24.4
LOWER MANNVILLE D	37.7	0.10		3.8		3.8	1.5	2.3
LOWER MANNVILLE E	154.0	0.10		15.4		15.4	1.6	13.8
LOWER MANNVILLE G	142.0	0.15		21.3		21.3	12.2	9.1
PEKISKO A	170.0	0.10		17.0		17.0	5.5	11.5
PROGRESS 077-09W6								
DOE CREEK A	6 245.0	0.05		312.0		312.0	101.3	210.7
CHARLIE LAKE A	87.7	<0.01		0.1		0.1	0.1	
CHARLIE LAKE B	14.5	0.10		1.5		1.5	0.4	1.1
CHARLIE LAKE C	145.0	0.10		14.5		14.5	1.2	13.3
CHARLIE LAKE E	122.0	<0.01		0.3		0.3	0.3	
CHARLIE LAKE F	92.9	0.10		9.3		9.3	1.4	7.9
CHARLIE LAKE G	1 250.0	0.10		125.0		125.0	28.4	96.6
CHARLIE LAKE I	196.0	0.10		19.6		19.6	5.7	13.9
CHARLIE LAKE J	138.0	0.10		13.8		13.8	1.6	12.2
CHARLIE LAKE K	173.0	0.10		17.3		17.3	3.4	13.9
CHARLIE LAKE L	269.0	<0.01		0.5		0.5	0.5	
BOUNDARY A	19.4	0.10		1.9		1.9	0.6	1.3

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	6.50	0.200	0.35	0.71	140	833	63	24 033	1 878.5	1981	89 12 - SUSP 87 07
64	15.00	0.042	0.10	0.71	123	839	79	27 286	2 051.7	1987	88 02
64	20.00	0.042	0.10	0.70	127	817	77		2 010.5	1988	88 12
64	5.23	0.063	0.15	0.63	204	801	107	32 010	3 304.2	1959	76 05 - ABAND 79 08
128	15.40	0.070	0.19	0.80	78	806	68	20 480	1 868.7	1975	88 11 - GPP
64	1.20	0.170	0.40	0.90	38	856	33	4 741	645.4	1982	83 07 - SUSP 83 09
64	4.00	0.060	0.30	0.88	50	878	43	9 946	1 022.0	1988	88 10 - ABAND 88 06
64	3.10	0.150	0.49	0.75	95	826	70	12 976	1 596.6	1984	85 03 - SUSP 85 09
64	4.00	0.080	0.14	0.75	100	855	60	10 905	1 598.0	1982	85 11 - SUSP 85 06
65	3.54	0.098	0.15	0.80	85	855	70	16 200	1 688.6	1975	78 09 - SUSP 75 03
64	4.80	0.101	0.50	0.80	74	840	55	16 652	1 688.0	1980	82 06 - SUSP 84 04
256	4.99	0.090	0.33	0.80	74	840	56	15 695	1 637.4	1983	85 12
64	9.20	0.120	0.19	0.80	75	847	60	13 899	1 593.4	1985	86 11 - SUSP 88 09
64	7.00	0.100	0.25	0.76	102	847	61	14 363	1 613.4	1985	86 11
3 650					135	826	75	16 720	1 862.8	1980	89 02
1 840	2.59	0.130	0.17	0.75							
1 810	3.36	0.130	0.12	0.75							
64	1.80	0.170	0.14	0.79	76	834	70	16 633	1 832.6	1973	82 12
64	1.30	0.120	0.14	0.79	76	834	70	16 695	1 819.4	1973	89 12 - SUSP 87 01
64	3.40	0.090	0.27	0.79	82	834	60	16 370	1 776.1	1981	83 01
64	2.70	0.110	0.18	0.80	70	847	70	16 572	1 795.9	1984	84 11
1 110					93	834	70	16 408	1 780.7	1971	85 12
720	3.53	0.120	0.19	0.79							
390	2.77	0.136	0.14	0.79							
64	4.50	0.130	0.22	0.75	100	866	59	20 105	2 001.0	1985	86 05
465	0.69	0.080	0.25	0.83	58	827	58	9 634	1 697.7	1984	87 10
128	1.35	0.060	0.25	0.83	58	827	58	9 470	1 810.1	1984	87 11
64	1.50	0.095	0.25	0.83	58	814	58	8 853	1 730.4	1986	87 10
64	0.80	0.080	0.30	0.85	58	831	59	9 804	1 671.3	1985	88 12
128	1.35	0.060	0.25	0.83	58	827	58	9 438	2 803.9	1961	87 11 - GPP
311	2.50	0.070	0.33	0.85	58	831	59	13 495	1 752.7	1987	88 10
64	2.42	0.130	0.25	0.70	89	870	66	16 200	1 940.7	1976	84 12 - GPP
168	8.80	0.130	0.21	0.79	90	897	65	15 786	1 841.0	1985	89 11
64	8.00	0.120	0.27	0.80	85	925	19	15 725	1 877.7	1985	86 04
64	1.10	0.100	0.37	0.85	57	887	50	15 561	1 832.9	1987	88 06
64	4.00	0.110	0.31	0.79	88	891	70	15 790	1 933.0	1988	89 01
64	3.20	0.120	0.27	0.79	90	897	66		1 825.8	1985	89 11
64	3.20	0.125	0.20	0.83	65	931	73	11 063	2 008.4	1973	86 11
2 178	1.80	0.236	0.25	0.90	12	836	25	1 689	321.0	1985	89 04
64	2.40	0.100	0.32	0.84	67	813	62	13 268	1 681.2	1982	83 08 - SUSP 84 08
64	0.70	0.070	0.40	0.77	80	850	60	12 935	1 667.1	1983	85 08
128	2.64	0.107	0.48	0.77	80	850	60	12 893	1 658.9	1983	86 04
64	3.70	0.100	0.33	0.77	64	835	54	13 407	1 642.2	1983	89 12 - SUSP 86 06
64	4.10	0.100	0.54	0.77	64	849	67	13 461	1 648.5	1982	85 08 - SUSP 89 07
320	4.23	0.150	0.20	0.77	80	836	60	14 172	1 654.0	1982	85 09
64	3.20	0.150	0.18	0.73	118	825	55	12 481	1 681.4	1982	86 02
64	3.00	0.120	0.20	0.75	123	827	60	14 446	1 805.5	1985	86 02 - SUSP 88 09
65	2.80	0.170	0.14	0.66	150	813	62	18 632	1 827.0	1985	87 12
64	3.50	0.180	0.11	0.75	96	825	54	14 050	1 648.3	1985	87 12 - SUSP 86 04
64	0.60	0.080	0.21	0.80	68	840	72	15 591	1 826.0	1984	85 07 - SUSP 87 11

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
PROGRESS 077-09W6 (CONTINUED)								
HALFWAY B	6 311.0	0.10		631.0		631.0	220.6	410.4
HALFWAY C	405.0	0.10		40.5		40.5	0.6	39.9
HALFWAY E	1 120.0	0.10		112.0		112.0	39.0	73.0
HALFWAY H	71.5	0.15		10.7		10.7	0.4	10.3
HALFWAY I	74.7	0.15		11.2		11.2	1.2	10.0
HALFWAY J	1 106.0	0.15		166.0		166.0	47.3	118.7
HALFWAY K	320.0	0.10		32.0		32.0		32.0
HALFWAY M	182.0	0.04		7.3		7.3	3.2	4.1
HALFWAY O	1 682.0	0.20		336.0		336.0	51.5	284.5
HALFWAY P	2 359.0	0.15		354.0		354.0	63.0	291.0
HALFWAY R	489.0	0.15		73.4		73.4	4.5	68.9
DOIG A	1 592.0	0.01		15.9		15.9	4.7	11.2
PROVDST 036-07W4								
VIKING P	180.0	0.05		9.0		9.0	2.4	6.6
VIKING V	170.0	0.15		25.5		25.5	17.9	7.6
VIKING GG	106.0	<0.01		0.2		0.2	0.2	
VIKING RR	61.7	0.10		6.2		6.2	3.0	3.2
VIKING UU	13.9	<0.01		0.1		0.1	0.1	
VIKING CAK & MANNVILLE E TOTAL	93 000.0			5 284.0	5 461.0	10 750.0	8 070.1	2 679.9
PRIMARY AREA	39 100.0	0.08		3 128.0		3 128.0		
WATER FLOOD AREA	53 900.0	0.04	0.10	2 156.0	5 461.0	7 617.0		
VIKING GGG	55.9	<0.01		0.1		0.1	0.1	
BLAIRMORE	2 630.0	0.12		316.0		316.0	220.0	96.0
BLAIRMORE B	4 276.0	0.25		1 069.0		1 069.0	792.0	277.0
MANNVILLE H	535.0	0.05		26.8		26.8	17.6	9.2
MANNVILLE I	745.0	0.03		22.4		22.4	10.3	12.1
MANNVILLE L	3 308.0	0.10		331.0		331.0	73.1	257.9
MANNVILLE S	255.0	0.20		51.0		51.0	9.0	42.0
MANNVILLE T	190.0	0.02		3.8		3.8	2.5	1.3
MANNVILLE CC	204.0	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE E2E, & LOWER MANN FF	178.0	0.01		1.8		1.8	0.6	1.2
UPPER MANNVILLE ODD	2 650.0	0.05		133.0		133.0	22.9	110.1
UPPER MANNVILLE Y2Y	393.0	0.05		19.6		19.6	1.9	17.7
UPPER MANNVILLE Z2Z	536.0	0.05		26.8		26.8	1.8	25.0
UPPER MANNVILLE F3F	493.0	0.02		9.9		9.9	2.5	7.4
LLOYDMINSTER A	684.0	0.03		20.5		20.5	7.2	13.3
LLOYDMINSTER D	1 780.0	0.10		178.0		178.0	45.6	132.4
LLOYDMINSTER G	100.0	<0.01		0.1		0.1	0.1	
LLOYDMINSTER H	120.0	0.10		12.0		12.0	7.6	4.4
LLOYDMINSTER I	60.5	0.05		3.0		3.0	1.1	1.9
LLOYDMINSTER J	35.4	0.10		3.5		3.5	2.2	1.3
LLOYDMINSTER L	95.5	<0.01		0.8		0.8	0.8	
LLOYDMINSTER M	49.9	0.10		5.0		5.0	3.3	1.7
LLOYDMINSTER N	248.0	0.05		12.4		12.4	0.5	11.9
LLOYDMINSTER O TOTAL	8 068.0	0.10		806.0	359.0	1 165.0	670.9	494.1
PRIMARY AREA	6 270.0	0.10		627.0		627.0		
WATER FLOOD AREA	1 793.0	0.10	0.20	179.0	359.0	538.0		
LLOYDMINSTER P	36.8	0.10		3.7		3.7	1.4	2.3
LLOYDMINSTER Q	40.7	0.10		4.1		4.1	0.1	4.0
LLOYDMINSTER R	503.0	0.05		25.2		25.2	5.6	19.6
LLOYDMINSTER S	102.0	0.10		10.2		10.2	5.5	4.7
LLOYDMINSTER U	493.0	0.05		24.6		24.6	3.9	20.7
LLOYDMINSTER V	190.0	0.05		9.5		9.5	2.0	7.5
LLOYDMINSTER X	31.1	<0.02		0.4		0.4	0.4	
LLOYDMINSTER Y	121.0	0.10		12.1		12.1	2.8	9.3
LLOYDMINSTER Z	195.0	0.05		9.8		9.8	0.6	9.2
LLOYDMINSTER AA	1 259.0	0.10		126.0		126.0	15.6	110.4
LLOYDMINSTER CC	85.2	0.10		8.5		8.5	0.4	8.1
LOWER MANNVILLE A	226.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE D	257.0	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE L	72.9	0.15		10.9		10.9	6.9	4.0
LOWER MANNVILLE W	430.0	0.02		8.6		8.6	4.4	4.2
LOWER MANNVILLE AA	85.7	0.15		12.8		12.8	10.0	2.8
LOWER MANNVILLE BB	414.0	0.15		52.1		52.1	5.9	56.2
LOWER MANNVILLE NN	154.0	<0.02		2.5		2.5	2.5	
LOWER MANNVILLE RR	447.0	0.10		44.7		44.7	2.4	42.3
LOWER MANNVILLE PP & D-2 B	222.0	0.03		6.7		6.7	0.7	6.0

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
896	13.63	0.100	0.32	0.76	112	844	70	17 555	1 909.4	1976	86 11
64	11.43	0.091	0.20	0.76	112	840	70	16 514	1 906.8	1984	85 05
128	10.36	0.150	0.12	0.64	191	805	67	20 538	1 840.3	1981	86 02
64	3.00	0.070	0.30	0.76	120	836	60	20 317	1 743.6	1984	86 04
64	1.90	0.150	0.37	0.65	185	812	60	16 501	1 730.8	1984	86 04
192	7.41	0.140	0.25	0.74	126	821	60	16 653	1 729.1	1985	89 03
65	9.50	0.100	0.32	0.76	112	839	70	16 047	1 919.0	1985	86 08
64	3.87	0.148	0.32	0.73	185	820	58	17 029	1 763.5	1986	89 10 - GPP
448	4.21	0.160	0.13	0.64	191	45	67	20 582	1 776.0	1987	88 05
695	4.59	0.139	0.30	0.76	96	40	50	16 938	1 683.9	1987	89 02
376	2.40	0.090	0.14	0.70	129	824	41	17 223	1 695.5	1988	89 10
128	21.90	0.090	0.16	0.75	94	830	70	16 908	1 892.2	1982	87 12
64	2.77	0.180	0.40	0.94	27	849	29	5 930	900.4	1977	85 12 - GPP
80	1.80	0.220	0.43	0.94	24	851	32	5 830	832.0	1976	87 12
64	2.20	0.160	0.50	0.94	23	858	32	6 009	842.5	1979	83 12 - SUSP 83 03
64	1.20	0.190	0.55	0.94	20	868	31	5 587	825.7	1976	83 08 - GPP
64	0.70	0.060	0.45	0.94	22	851	38	5 447	808.9	1984	85 11 - ABAND 87 12
65 606					25	855	36	5 720	891.5	1946	86 12 - GPP
32 086	1.56	0.260	0.68	0.94							SW=(SW=.50 + SG=.18)=.68
33 520	1.36	0.252	0.50	0.94							SW=(SW=.37 + SG=.13)=.50
64	1.22	0.130	0.40	0.91	38	857	37	5 940	757.4	1978	78 11 - SUSP 82 04
516	2.70	0.270	0.24	0.92	28	892	33	6 068	873.4	1958	88 07 - GPP
581	3.60	0.290	0.25	0.94	27	892	33	6 340	944.0	1958	89 12 - GPP
129	2.44	0.290	0.35	0.90	25	887	27	6 170	817.4	1972	89 03 - GPP
256	2.34	0.220	0.35	0.87	62	870	28	6 120	843.9	1973	88 06 - GPP
475	3.76	0.250	0.22	0.95	21	900	28	5 990	827.8	1976	89 12 - GPP
16	9.20	0.260	0.29	0.94	25	910	37	5 740	787.3	1976	89 12 - GPP
64	3.23	0.200	0.49	0.90	35	876	30	6 095	877.4	1977	86 02
64	2.54	0.220	0.40	0.95	18	881	30	7 216	851.8	1979	82 12 - SUSP 80 06
64	3.20	0.170	0.40	0.85	24	872	41	7 276	1 156.1	1974	88 12
875	2.40	0.230	0.39	0.10	32	892	33	6 634	962.8	1984	89 12
200	4.70	0.180	0.73	0.86	55	874	38	6 371	1 150.8	1984	87 04 - SUSP 87 10
32	12.37	0.230	0.36	0.92	32	916	32	6 744	961.8	1982	89 04
64	6.90	0.230	0.50	0.97	25	882	31	5 775	805.1	1985	87 12
64	7.70	0.220	0.35	0.97	38	880	17	6 205	805.1	1979	82 12 - GPP
480	2.62	0.260	0.42	0.94	28	870	30	5 548	787.2	1983	84 12
16	3.50	0.330	0.40	0.90	42	964	30	6 165	905.8	1984	84 11 - ABAND 84 09
32	2.00	0.300	0.30	0.90	27	902	28	5 179	791.0	1984	84 11
32	1.00	0.300	0.30	0.90	42	902	30	5 094	789.0	1984	84 05
32	0.70	0.270	0.35	0.90	42	902	30	4 906	792.7	1984	84 05
16	3.70	0.280	0.40	0.96	25	937	30	5 568	782.9	1984	85 03 - ABAND 87 11
24	1.10	0.300	0.30	0.90	30	902	29	5 510	780.9	1984	88 12
48	3.01	0.300	0.41	0.97	11	970	30	5 598	790.9	1984	88 01 - SUSP 88 09
1 142					17	911	28	5 195	800.9	1985	89 09
774	3.28	0.310	0.17	0.96							- GPP
368	2.34	0.270	0.18	0.94							
16	1.20	0.300	0.29	0.90	25	902	26	4 975	759.1	1984	89 12
16	1.30	0.320	0.32	0.90	43	900	27	4 967	782.9	1984	86 08
64	4.30	0.290	0.35	0.97	15	880	28	5 538	811.7	1986	86 11
16	3.60	0.300	0.37	0.94	22	905	27	5 537	785.0	1985	87 08
64	4.91	0.300	0.12	0.95	11	904	28	4 246	794.0	1987	89 05
32	2.60	0.300	0.20	0.95	21	900	28	5 596	774.3	1987	88 02
16	1.00	0.300	0.28	0.90	28	947	34	4 614	784.0	1987	88 02 - ABAND 88 06
64	1.16	0.290	0.40	0.94	22	905	27	4 735	782.6	1987	88 08
32	4.20	0.280	0.45	0.94	22	905	27	5 577	787.9	1987	88 08
235	3.23	0.280	0.37	0.94	22	905	27		777.8	1988	89 10
16	3.00	0.280	0.34	0.96	10	918	31		770.0	1988	89 05
64	4.31	0.130	0.30	0.90	43	874	38	7 171	976.9	1977	78 08 - ABAND 78 06
64	3.40	0.200	0.35	0.91	35	892	32	6 770	1 000.8	1978	83 12 - SUSP 81 12
64	1.00	0.230	0.45	0.90	42	861	32	6 878	1 030.5	1980	87 12 - GPP
64	5.30	0.240	0.45	0.96	15	865	30	7 036	1 049.2	1982	86 12
32	2.21	0.210	0.47	0.92	33	871	31	6 765	1 051.6	1984	89 04
80	3.66	0.240	0.36	0.92	20	877	29	7 250	1 052.6	1985	89 07
16	7.10	0.220	0.25	0.82	28	949	37	6 358	965.8	1983	89 12 - SUSP 86 03
64	4.20	0.220	0.22	0.97	7	915	27	5 727	884.2	1987	88 07 - GPP
64	4.65	0.240	0.35	0.90	37	889	41	6 374	1 054.6	1986	88 08 - GPP

TABLE 2-4

FIELD POOL	1	2	3	4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
PROVOST 036-07W4 (CONTINUED)								
ELLERSLIE C	147.0	<0.01		0.4		0.4	0.4	
ELLERSLIE D	1 559.0	0.20		312.0		312.0	109.4	202.6
ELLERSLIE E	52.8	<0.01		0.1		0.1	0.1	
ELLERSLIE G	92.8	0.20		18.6		18.6	8.9	9.7
ELLERSLIE H	200.0	0.10		20.0		20.0	0.5	19.5
ELLERSLIE I	239.0	0.05		11.9		11.9	0.8	11.1
ELLERSLIE J	93.4	0.10		9.3		9.3	0.9	8.4
ELLERSLIE K	386.0	0.10		38.6		38.6	5.8	32.8
DETRITAL A	193.0	0.10		19.3		19.3	0.8	18.5
D-1 A	20.7	0.10		2.1		2.1	0.1	2.0
D-2 A	119.0	<0.01		1.0		1.0	1.0	
PUSKAWASKAU 074-01W6								
D-2 A	124.0	0.30		37.2		37.2	8.7	28.5
D-3 A	880.0	0.35		308.0		308.0	46.5	261.5
D-3 B	131.0	0.10		13.1		13.1	0.4	12.7
QUEENSTOWN 019-22W4								
ELLERSLIE A	49.7	0.05		2.5		2.5	0.1	2.4
ELLERSLIE B	141.0	0.10		14.1		14.1	9.8	4.3
RACOSTA 031-11W4								
VIKING A	94.3	<0.01		0.3		0.3	0.3	
UPPER MANNVILLE A	276.0	0.03		8.3		8.3	1.2	7.1
UPPER MANNVILLE B	243.0	0.10		24.3		24.3	0.2	24.1
BASAL QUARTZ A	750.0	0.10		75.0		75.0	32.3	42.7
RAINBOW 109-05W6								
SLAVE POINT B	373.0	0.10		37.3		37.3	8.0	29.3
SULPHUR POINT B	2 300.0	0.15		345.0		345.0	217.5	127.5
SULPHUR POINT C	642.0	0.06		38.5		38.5	31.4	7.1
SULPHUR POINT E	127.0	<0.01		0.1		0.1	0.1	
SULPHUR POINT L	130.0	0.10		13.0		13.0	5.9	7.1
SULPHUR POINT O	604.0	<0.10		59.5		59.5	59.5	
MUSKEG A	639.0	<0.08		45.3		45.3	45.3	
MUSKEG B	54.7	<0.13		6.7		6.7	6.7	
MUSKEG C WATER FLOOD	3 000.0	0.30	0.05	900.0	150.0	1 050.0	513.0	537.0
MUSKEG D	300.0	<0.02		5.9		5.9	5.9	
MUSKEG F	3 180.0	0.15		477.0		477.0	314.6	162.4
MUSKEG G	159.0	<0.04		5.5		5.5	5.5	
MUSKEG J	248.0	<0.05		12.0		12.0	12.0	
MUSKEG K	1 060.0	0.15		159.0		159.0	56.7	102.3
MUSKEG M	632.0	0.10		63.2		63.2	16.0	47.2
MUSKEG N	2 473.0	0.15		371.0		371.0	62.6	308.4
MUSKEG O	6 280.0	0.13		816.0		816.0	261.8	554.2
MUSKEG P	135.0	0.15		20.3		20.3	5.6	14.7
MUSKEG R	52.5	<0.01		0.1		0.1	0.1	
MUSKEG S WATER FLOOD	2 000.0	0.15		400.0	300.0	700.0	244.2	455.8
MUSKEG T	493.0	0.15		74.0		74.0	31.7	42.3
MUSKEG Y	900.0	0.10		90.0		90.0	15.3	74.7
MUSKEG Z	496.0	0.10		49.6		49.6	1.8	47.8
MUSKEG AA	290.0	0.15		43.5		43.5	4.5	39.0
MUSKEG BB	151.0	0.15		22.7		22.7	8.2	14.5
MUSKEG CC	114.0	0.15		17.1		17.1	2.1	15.0
MUSKEG EE	113.0	0.15		17.0		17.0	3.3	13.7
KEG RIVER A	14 300.0	0.50	0.38	7 150.0	5 430.0	12 600.0	9 296.4	3 303.6
SOLVENT FLOOD								
KEG RIVER B	43 000.0	0.40	0.32	17 200.0	13 600.0	30 800.0	20 075.6	10 724.4
SOLVENT FLOOD								
KEG RIVER D	1 130.0	0.40	0.25	452.0	282.5	734.5	598.1	136.4
SOLVENT FLOOD								
KEG RIVER E	3 450.0	0.35	0.28	1 208.0	966.0	2 174.0	1 942.4	231.6
SOLVENT FLOOD								
KEG RIVER F	31 800.0	0.53	0.07	16 900.0	2 220.0	19 100.0	16 261.2	2 838.8
WATER FLOOD								
KEG RIVER G	2 380.0	0.40	0.37	953.0	882.0	1 840.0	1 438.0	402.0
SOLVENT FLOOD								
KEG RIVER H	2 350.0	0.40	0.35	938.0	821.0	1 760.0	1 465.4	294.6
SOLVENT FLOOD								
KEG RIVER I	7 300.0	0.37	0.06	2 760.0	489.0	3 250.0	2 622.0	628.0
WATER FLOOD								

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.00	0.173	0.52	0.92	37	897	21	6 419	963.5	1985	89 12 - SUSP 87 08
192	4.97	0.240	0.26	0.92	32	912	34	6 490	965.8	1982	89 12 - GPP
64	1.40	0.160	0.60	0.92	31	864	30	7 467	972.5	1986	87 05 - ABAND 88 05
16	3.98	0.210	0.27	0.95	16	909	34	6 606	1 044.8	1987	89 05 - GPP
16	8.00	0.200	0.17	0.94	28	924	31	6 288	990.5	1988	88 06 - GPP
32	4.60	0.230	0.25	0.94	28	924	31		985.7	1988	89 03
16	4.50	0.230	0.40	0.94	28	924	31		1 047.0	1988	89 03
64	3.80	0.260	0.33	0.91	37	899	35		985.0	1988	89 04 - GPP
32	4.22	0.230	0.36	0.97	9	935	28	7 042	1 050.9	1988	89 04
64	2.20	0.030	0.45	0.89	41	903	41	7 908	1 016.2	1980	84 05
65	5.49	0.070	0.40	0.80	25	855	40		1 131.4	1974	76 12 - SUSP 75 12
64	7.00	0.060	0.19	0.57	246	822	88	27 608	2 610.0	1984	86 03 - SUSP 87 12
192	14.10	0.070	0.17	0.56	247	825	82	28 498	2 684.4	1984	86 03
64	8.00	0.052	0.22	0.63	212	801	80	28 702	2 722.7	1987	88 12
64	2.00	0.090	0.48	0.83	83	838	45	13 503	1 463.2	1987	88 07 - SUSP 88 11
64	2.15	0.160	0.20	0.80	80	861	45	12 153	1 388.0	1963	79 12 - GPP
64	2.47	0.134	0.50	0.89	37	852	27	7 795	895.1	1980	84 12 - SUSP 82 02
64	4.50	0.180	0.38	0.86	55	871	39	5 707	1 048.4	1981	89 12
64	4.00	0.180	0.38	0.85	64	871	38	7 442	1 048.2	1978	86 07
256	2.54	0.240	0.44	0.86	65	868	36	8 755	1 079.1	1979	82 09
64	9.80	0.110	0.40	0.90	45	854	40	12 550	1 241.6	1970	84 03
773	5.91	0.091	0.22	0.71	101	834	72	14 730	1 543.5	1967	89 06
192	5.37	0.100	0.18	0.76	121	839	68	15 355	1 595.4	1967	87 09 - GPP
65	6.10	0.055	0.25	0.78	89	849	74	14 560	1 636.5	1967	71 03 - SUSP 71 03
65	5.79	0.080	0.45	0.79	75	844	94	15 310	1 671.8	1969	78 01 - GPP
41	17.37	0.112	0.09	0.83	65	839	81	16 980	1 739.3	1967	89 12 - ABAND 87 09
119	7.22	0.097	0.08	0.83	56	844	86	15 440	1 762.7	1966	88 12 - ABAND 86 09
16	11.43	0.050	0.20	0.74	107	820	82	15 500	1 659.9	1966	76 12 - SUSP 76 11
450	11.60	0.089	0.15	0.76	92	834	84	16 580	1 580.1	1967	89 05
81	9.14	0.060	0.10	0.75	105	834	77	14 586	1 625.5	1967	84 12 - SUSP 83 07
970	9.14	0.057	0.15	0.74	103	825	88	15 480	1 639.5	1965	76 08 - GPP
81	5.76	0.050	0.15	0.80	56	834	86	14 550	1 604.2	1967	79 04 - ABAND 79 04
81	6.10	0.080	0.15	0.74	108	825	88	16 045	1 727.0	1973	89 12 - SUSP 86 01
64	19.00	0.120	0.10	0.81	129	884	82	16 984	1 717.1	1977	79 07
128	15.80	0.050	0.20	0.78	87	845	84	15 333	1 799.0	1983	89 09
512	11.05	0.065	0.17	0.81	62	834	86	15 000	1 864.0	1982	87 08
704	17.47	0.075	0.17	0.82	57	835	80	18 618	1 838.3	1968	85 05 - GPP
64	5.80	0.060	0.20	0.76	85	828	84	16 304	1 804.0	1965	84 08
64	3.00	0.060	0.40	0.76	95	838	85	14 670	1 621.5	1984	88 12 - SUSP 85 03
189	14.00	0.100	0.10	0.84	50	829	82	17 683	1 777.9	1967	88 04
103	11.86	0.060	0.20	0.84	56	833	81	20 690	1 866.7	1968	87 12 - GPP
297	6.03	0.073	0.16	0.82	60	835	80	20 994	1 775.5	1984	87 05
128	7.70	0.076	0.12	0.75	99	825	88	17 002	1 728.5	1985	89 10
64	10.00	0.070	0.20	0.81	62	840	86	9 377	1 837.4	1986	86 10
64	4.20	0.080	0.10	0.78	140	840	87	16 929	1 761.0	1984	86 10
64	4.90	0.060	0.12	0.69	129	840	82	20 776	1 723.0	1983	86 10
64	7.30	0.045	0.22	0.69	129	856	82	16 327	1 752.8	1987	87 12
253	90.22	0.101	0.10	0.69	141	811	84	18 090	1 944.9	1965	70 02 - I.S. NO. 1
1 090	69.12	0.080	0.13	0.82	62	834	85	17 170	1 820.0	1965	84 07 - GPP
34	46.32	0.100	0.08	0.78	77	825	82	17 780	1 923.3	1966	87 04 - I.S. NO. 1
55	79.83	0.117	0.08	0.73	95	829	83	17 130	1 808.4	1966	87 05 - I.S. NO. 1
1 644	73.30	0.045	0.15	0.69	135	815	85	17 480	1 855.6	1966	75 05
65	68.58	0.080	0.08	0.72	85	829	83	17 860	1 874.8	1966	67 12 - I.S. NO. 1
19	176.00	0.094	0.08	0.80	78	829	84	20 350	1 893.1	1966	83 04 - I.S. NO. 1
415	53.00	0.055	0.15	0.71	122	820	79	16 450	1 739.2	1966	89 09

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
RAINBOW 109-05W6 (CONTINUED)								
KEG RIVER K	2 100.0	0.35		735.0		735.0	556.2	178.8
KEG RIVER M	477.0	0.27		129.0		129.0	116.0	13.0
KEG RIVER N	2 300.0	0.30	0.13	690.0	310.0	1 000.0	848.7	151.3
GAS FLOOD								
KEG RIVER O	6 210.0	0.40	0.40	2 480.0	2 480.0	4 960.0	3 853.8	1 106.2
SOLVENT FLOOD								
KEG RIVER P	795.0	0.22		175.0		175.0	161.4	13.6
KEG RIVER Q	3 820.0	0.25		95.5		95.5	4.2	91.3
KEG RIVER R	71.0	<0.06		3.9		3.9	3.9	
KEG RIVER S	2 110.0	0.38		802.0		802.0	618.4	183.6
KEG RIVER T	3 500.0	0.42	0.33	1 470.0	1 155.0	2 625.0	1 819.8	805.2
SOLVENT FLOOD								
KEG RIVER U	3 250.0	0.26		845.0		845.0	772.0	73.0
KEG RIVER V	84.7	<0.01		0.4		0.4	0.4	
KEG RIVER W	340.0	0.15		51.0		51.0	30.4	20.6
KEG RIVER X	636.0	0.50		318.0		318.0	257.2	60.8
KEG RIVER Y	28.5	<0.06		1.5		1.5	1.5	
KEG RIVER Z	1 676.0	0.32	0.34	536.0	570.0	1 106.0	960.6	145.4
SOLVENT FLOOD								
KEG RIVER AA	11 000.0	0.45	0.25	4 950.0	2 750.0	7 700.0	6 793.0	907.0
SOLVENT FLOOD								
KEG RIVER DD	585.0	0.15		87.8		87.8	81.8	6.0
KEG RIVER EE	2 780.0	0.35	0.23	973.0	639.0	1 610.0	1 317.1	292.9
WATER FLOOD								
KEG RIVER FF	2 500.0	0.42	0.31	1 050.0	775.0	1 825.0	1 332.3	492.7
SOLVENT FLOOD								
KEG RIVER GG	1 786.0	0.50		893.0		893.0	616.6	276.4
KEG RIVER HH	742.0	<0.01		3.2		3.2	3.2	
KEG RIVER II	3 490.0	0.45	0.20	1 570.0	700.0	2 270.0	1 772.1	497.9
SOLVENT FLOOD								
KEG RIVER JJ	1 360.0	<0.43	0.12	583.0	164.0	747.0	503.9	243.1
WATER FLOOD								
KEG RIVER KK	787.0	0.41	0.09	323.0	70.9	394.0	206.1	187.9
WATER FLOOD								
KEG RIVER LL	1 590.0	0.25		398.0		398.0	238.4	159.6
KEG RIVER MM	1 840.0	0.35		644.0		644.0	250.3	393.7
KEG RIVER NN	679.0	0.25		170.0		170.0	110.4	59.6
KEG RIVER OO	2 840.0	0.40	0.10	1 136.0	284.0	1 420.0	773.8	646.2
WATER FLOOD								
KEG RIVER PP TOTAL	953.0			334.0	44.4	379.0	263.6	115.4
PRIMARY AREA	400.0	0.20		80.0		80.0		
WATER FLOOD AREA	553.0	0.46	0.08	254.0	44.4	299.0		
KEG RIVER QQ	1 210.0	0.35	0.18	423.0	218.0	641.0	386.2	254.8
WATER FLOOD								
KEG RIVER RR	413.0	0.40	0.13	165.0	53.7	219.0	203.9	15.1
WATER FLOOD								
KEG RIVER SS	477.0	0.20		95.4		95.4	42.6	52.8
KEG RIVER TT	41.5	<0.02		0.5		0.5	0.5	
KEG RIVER VV	319.0	0.36	0.11	115.0	35.1	150.0	133.4	16.6
WATER FLOOD								
KEG RIVER WW	477.0	0.20		95.4		95.4	58.5	36.9
KEG RIVER XX	183.0	0.35		64.1		64.1	27.3	36.8
KEG RIVER ZZ	300.0	0.40		120.0		120.0	109.3	10.7
KEG RIVER BBB	600.0	0.30		180.0		180.0	90.5	89.5
KEG RIVER CCC	556.0	0.35		195.0		195.0	147.6	47.4
KEG RIVER DDD	928.0	0.40	0.11	372.0	102.0	474.0	155.1	318.9
WATER FLOOD								
KEG RIVER EEE	1 910.0	0.40	0.30	764.0	572.0	1 340.0	725.0	615.0
SOLVENT FLOOD								
KEG RIVER GGG	569.0	0.40		228.0		228.0	34.0	194.0
KEG RIVER HHH	254.0	0.15		38.1		38.1	25.1	13.0
KEG RIVER III	187.0	0.40		74.8		74.8	2.5	72.3
KEG RIVER JJJ	300.0	0.30		90.0		90.0	18.9	71.1
KEG RIVER KKK	159.0	0.35		55.6		55.6	32.9	22.7
KEG RIVER LLL	378.0	0.30		113.0		113.0	36.0	77.0
KEG RIVER MMM	159.0	0.10		15.9		15.9	2.1	13.8
KEG RIVER NNN	375.0	<0.01		1.0		1.0	1.0	
KEG RIVER OOO	234.0	<0.20	0.09	45.1	21.1	66.2	64.5	1.7
WATER FLOOD								
KEG RIVER QQQ	1 750.0	0.20		350.0		350.0	225.9	124.1
KEG RIVER SSS	195.0	0.30		58.6		58.6	43.4	15.2

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
511	25.70	0.030	0.28	0.74	106	815	88	15 890	1 786.7	1966	88 03
106	16.40	0.047	0.22	0.75	106	797	84	15 620	1 680.1	1966	86 12 - GPP
422	25.61	0.037	0.25	0.77	87	815	84	15 860	1 839.8	1966	87 11 - I.S. NO. 2
281	61.26	0.060	0.13	0.69	135	815	84	16 550	1 845.0	1966	68 02 - I.S. NO. 1
40	33.71	0.085	0.11	0.77	88	834	83	16 730	1 875.7	1967	86 12 - GPP
64	18.87	0.073	0.15	0.51	295	682	82	1 791.9	1 791.9	1967	88 10
20	12.19	0.045	0.20	0.80	76	855	87	15 550	1 727.3	1967	78 10 - ABAND 80 10
342	17.75	0.055	0.19	0.78	87	825	85	15 480	1 734.9	1966	84 12 - GPP
90	63.44	0.086	0.12	0.81	78	844	86	16 690	1 769.4	1967	87 08 - I.S. NO. 2
244	27.10	0.074	0.16	0.79	79	844	88	15 560	1 738.0	1966	80 07
65	5.49	0.048	0.29	0.70	99	844	87	14 960	1 502.4	1966	68 05 - SUSP 68 04
38	21.95	0.066	0.19	0.77	93	811	77	15 780	1 864.5	1967	81 12 - GPP
68	17.37	0.090	0.13	0.69	131	815	87	15 510	1 624.9	1966	81 07
64	5.79	0.020	0.45	0.70	126	820	87	15 200	1 561.5	1966	88 12 - SUSP 86 03
181	37.09	0.045	0.27	0.76	86	834	86	15 580	1 595.6	1967	89 12 - I.S. NO. 2
291	68.30	0.086	0.11	0.72	92	829	84	16 090	1 684.0	1967	88 11
134	18.47	0.040	0.25	0.79	80	820	87	15 840	1 797.7	1967	82 12
148	45.04	0.063	0.14	0.77	88	834	86	15 170	1 686.5	1967	84 12 - I.S. NO. 11
92	46.13	0.085	0.10	0.77	86	839	87	15 820	1 716.6	1967	87 08 - I.S. NO. 2
400	22.55	0.033	0.20	0.75	81	784	93	15 890	1 714.2	1966	87 03
65	42.06	0.046	0.25	0.80	85	820	84	17 930	1 881.5	1967	89 12 - SUSP 86 01
73	71.48	0.100	0.12	0.76	85	820	89	17 440	1 812.0	1967	89 01
51	48.77	0.085	0.10	0.72	110	815	90	16 990	1 817.5	1967	73 09 - I.S. NO. 11
154	22.46	0.040	0.25	0.76	74	779	94	16 290	1 741.9	1967	73 04 - I.S. NO. 11
304	35.92	0.026	0.30	0.80	68	797	86	15 480	1 603.0	1967	88 12
518	25.10	0.027	0.32	0.77	81	855	84	15 070	1 679.5	1967	84 06
166	13.01	0.053	0.23	0.77	70	806	86	15 310	1 612.8	1967	82 12 - GPP
421	18.98	0.057	0.18	0.76	92	825	85	15 310	1 642.2	1967	89 04 - I.S. NO. 11
128					106	784	94	15 490	1 668.5	1967	89 12
64	32.90	0.033	0.20	0.72							
64	39.46	0.038	0.20	0.72							
112	39.32	0.045	0.21	0.77	94	839	85	15 240	1 673.0	1967	69 07 - I.S. NO. 11
39	24.40	0.070	0.15	0.73	98	779	93	16 000	1 739.2	1968	84 12 - I.S. NO. 11
47	28.65	0.054	0.20	0.82	57	834	87	15 240	1 710.8	1968	89 12 - GPP
36	10.15	0.023	0.35	0.75	108	797	83	15 530	1 670.6	1966	77 09 - SUSP 77 11
71	22.00	0.040	0.25	0.68	74	834	73	16 130	1 750.5	1968	83 12 - I.S. NO. 11
50	58.49	0.030	0.30	0.78	81	849	82	15 170	1 509.9	1968	84 12 - GPP
39	18.87	0.040	0.20	0.77	75	825	84	15 480	1 747.4	1968	86 12 - SUSP 89 03
45	27.43	0.040	0.22	0.78	84	834	87	15 070	1 513.3	1968	84 12
106	30.25	0.032	0.24	0.77	95	839	82	15 720	1 574.3	1968	84 12
41	39.93	0.050	0.15	0.79	89	839	80	15 860	1 562.7	1968	70 02
61	40.63	0.054	0.15	0.82	55	834	87	15 200	1 574.6	1968	70 12 - I.S. NO. 11
24	64.01	0.168	0.05	0.77	95	839	86	14 490	1 855.3	1968	72 02 - I.S. NO. 1
80	22.86	0.050	0.19	0.77	85	834	82	15 030	1 504.0	1968	88 07
303	9.69	0.018	0.40	0.80	68	797	84	15 490	1 590.1	1967	82 12 - GPP
38	20.33	0.042	0.25	0.77	85	834	82	15 070	1 514.9	1969	85 04
41	48.40	0.025	0.27	0.83	68	839	86	15 110	1 527.1	1969	88 06
11	40.84	0.053	0.15	0.79	82	834	88	15 700	1 892.8	1969	75 04 - GPP
69	35.84	0.025	0.27	0.84	55	844	87	15 110	1 523.4	1969	70 01 - SUSP 89 03
12	30.63	0.066	0.18	0.79	66	834	86	15 400	1 875.7	1969	75 06 - SUSP 88 12
65	33.83	0.033	0.35	0.80	67	839	79	15 240	1 604.5	1969	89 12 - SUSP 87 03
81	9.91	0.045	0.20	0.81	64	811	97	15 860	1 748.9	1970	89 12
383	13.81	0.053	0.22	0.80	55	811	90	15 280	1 609.6	1968	87 12 - GPP
65	10.06	0.047	0.16	0.76	101	825	84	15 360	1 687.7	1972	73 12

TABLE 2-4

FIELD POOL	1 INITIAL VOLUME IN PLACE 10 ³ m ³	3 RECOVERY		5 INITIAL ESTABLISHED RESERVES			7 CUMULATIVE PRODUCTION 10 ³ m ³	8 REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
RAINBOW 109-05W6 (CONTINUED)								
KEG RIVER TTT	454.0	0.30		136.0		136.0	108.8	27.2
KEG RIVER UUU	111.0	0.30		33.4		33.4	21.0	12.4
KEG RIVER VVV	137.0	0.10		13.7		13.7	6.2	7.5
KEG RIVER WWW	377.0	<0.04		11.8		11.8	11.8	
KEG RIVER XXX	233.0	<0.02		2.9		2.9	2.9	
KEG RIVER YYY	140.0	0.20		28.0		28.0	13.5	14.5
KEG RIVER ZZZ	205.0	<0.01		1.1		1.1	1.1	
KEG RIVER A2A	323.0	<0.04		10.0		10.0	10.0	
KEG RIVER B2B	132.0	<0.02		1.4		1.4	1.4	
KEG RIVER C2C	2 540.0	0.40	0.13	1 020.0	331.0	1 350.0	736.3	613.7
WATER FLOOD								
KEG RIVER D2D	90.0	0.15		13.5		13.5	2.5	11.0
KEG RIVER E2E	70.2	<0.02		0.9		0.9	0.9	
KEG RIVER F2F	108.0	0.25		27.0		27.0	3.7	23.3
KEG RIVER G2G	130.0	<0.01		0.3		0.3	0.3	
KEG RIVER I2I	147.0	0.25		36.8		36.8	15.6	21.2
KEG RIVER J2J	146.0	<0.01		0.1		0.1	0.1	
KEG RIVER K2K	180.0	0.25		45.0		45.0	8.1	36.9
KEG RIVER L2L	227.0	<0.01		0.2		0.2	0.2	
KEG RIVER M2M	200.0	0.15		30.0		30.0	2.3	27.7
KEG RIVER N2N	139.0	<0.01		0.2		0.2	0.2	
KEG RIVER O2O	1 300.0	0.35		455.0		455.0	147.7	307.3
KEG RIVER P2P	112.0	<0.02		1.3		1.3	1.3	
KEG RIVER Q2Q	280.0	0.05		14.0		14.0	4.8	9.2
KEG RIVER R2R	41.5	<0.03		0.9		0.9	0.9	
KEG RIVER S2S	322.0	0.25		80.5		80.5	9.6	70.9
KEG RIVER T2T	255.0	0.25		63.8		63.8	0.8	63.0
KEG RIVER U2U	397.0	0.25		99.3		99.3	6.7	92.6
KEG RIVER V2V	158.0	0.25		39.5		39.5	5.8	33.7
KEG RIVER W2W	191.0	<0.01		0.5		0.5	0.5	
KEG RIVER X2X	90.0	0.25		22.5		22.5	2.3	20.2
KEG RIVER Y2Y	1 000.0	0.40	0.08	400.0	80.0	480.0	186.3	293.7
WATER FLOOD								
KEG RIVER Z2Z	650.0	0.40		260.0		260.0	81.0	179.0
KEG RIVER B3B	864.0	0.30		259.0		259.0	49.9	209.1
KEG RIVER C3C	54.0	0.30		16.2		16.2	4.5	11.7
KEG RIVER D3D	1 418.0	0.30		425.0		425.0	2.3	422.7
KEG RIVER E3E	161.0	0.25		40.3		40.3	1.4	38.9
KEG RIVER F3F	152.0	0.30		45.6		45.6	1.1	44.5
KEG RIVER G3G	128.0	0.35		44.8		44.8	3.5	41.3
KEG RIVER H3H	337.0	0.25		84.3		84.3	1.6	82.7
KEG RIVER J3J	312.0	0.25		78.0		78.0	1.2	76.8
KEG RIVER K3K	100.0	0.30		30.0		30.0	0.7	29.3
KEG RIVER L3L	308.0	0.30		92.4		92.4	1.8	90.6
KEG RIVER M3M	245.0	0.25		61.3		61.3	0.1	61.2
RAINBOW SOUTH 107-09W6								
SULPHUR POINT B	23.8	<0.05		1.0		1.0	1.0	
MUSKEG A	37.0	0.24		8.9		8.9	8.9	
MUSKEG B	238.0	0.17		40.5		40.5	28.3	12.2
MUSKEG C	630.0	0.20		126.0		126.0	17.9	108.1
MUSKEG D	157.0	<0.08		11.1		11.1	11.1	
MUSKEG F	448.0	<0.01		0.2		0.2	0.2	
MUSKEG G	600.0	0.20		120.0		120.0	45.3	74.7
MUSKEG H	1 440.0	0.15		216.0		216.0	84.6	131.4
MUSKEG J	214.0	<0.04		7.0		7.0	7.0	
MUSKEG K	533.0	0.15		80.0		80.0	59.5	20.5
MUSKEG L	130.0	<0.03		3.0		3.0	3.0	
MUSKEG N	300.0	0.20		60.0		60.0	18.5	41.5
MUSKEG O	1 912.0	0.15		287.0		287.0	30.9	256.1
MUSKEG P	7 662.0	0.10		766.0		766.0	105.8	660.2
MUSKEG S	288.0	0.10		28.8		28.8	18.1	10.7
MUSKEG U	517.0	0.20		103.0		103.0	14.4	88.6
KEG RIVER A	5 720.0	0.46	0.08	2 630.0	445.0	3 080.0	1 707.9	1 372.1
WATER FLOOD								
KEG RIVER B	6 520.0	0.45	0.20	2 934.0	1 304.0	4 238.0	3 611.0	627.0
SOLVENT FLOOD								
KEG RIVER C	2 250.0	0.50		1 130.0		1 130.0	573.8	556.2
KEG RIVER D	207.0	0.30		62.1		62.1	40.2	21.9

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
65	20.97	0.058	0.25	0.77	89	811	88	15 720	1 861.4	1973	77 02
31	12.41	0.048	0.20	0.76	92	815	83	15 479	1 688.0	1974	75 10
65	8.75	0.043	0.27	0.77	85	834	89	14 580	1 491.4	1970	85 04
32	54.00	0.040	0.30	0.78	81	810	87	14 866	1 579.0	1980	89 12 - SUSP 86 03
64	12.00	0.050	0.20	0.76	104	815	72	13 823	1 539.0	1982	82 07 - SUSP 84 04
45	50.00	0.020	0.60	0.78	81	783	93	12 801	1 614.5	1982	83 12
64	15.00	0.040	0.28	0.74	105	803	45	14 540	1 584.4	1983	84 05 - ABAND 89 03
64	11.50	0.060	0.13	0.84	100	824	86	15 395	1 692.8	1984	84 06 - ABAND 88 09
64	19.76	0.020	0.32	0.76	69	834	88	14 770	1 680.3	1982	88 12 - SUSP 86 03
71	74.55	0.080	0.10	0.67	140	815	84	20 460	1 906.2	1966	76 06
11	57.54	0.030	0.40	0.79	54	823	82	14 816	1 572.8	1985	86 06
64	19.00	0.015	0.45	0.70	112	800	100	17 040	1 946.5	1985	87 12 - SUSP 86 01
64	16.50	0.020	0.37	0.81	54	820	94	14 057	1 638.8	1985	86 03
64	31.00	0.013	0.38	0.81	64	820	65	12 880	1 621.5	1986	89 12 - SUSP 87 01
64	17.40	0.020	0.24	0.87	41	831	75	14 854	1 596.6	1985	86 03
64	34.00	0.016	0.50	0.84	53	820	81	13 706	1 527.0	1985	88 12 - SUSP 86 03
50	12.24	0.053	0.27	0.76	70	818	88	14 819	1 634.6	1985	87 07 - SUSP 88 11
64	10.50	0.051	0.15	0.78	81	828	84	11 600	1 503.3	1986	86 06 - SUSP 86 03
49	37.12	0.021	0.32	0.77	93	812	84	14 633	1 864.8	1985	87 07
64	26.40	0.020	0.45	0.75	86	786	90	13 811	1 764.7	1984	88 12 - SUSP 86 04
48	88.30	0.048	0.17	0.77	143	790	87	16 526	1 911.5	1986	87 12
64	23.00	0.019	0.40	0.67	143	780	87	14 847	1 836.5	1986	89 12 - SUSP 87 07
64	12.00	0.055	0.16	0.79	108	817	87	14 502	1 684.0	1986	89 12
64	11.00	0.011	0.33	0.80	55	760	90	15 081	1 650.5	1986	89 12 - SUSP 87 06
64	14.00	0.057	0.18	0.77	85	846	81	16 348	1 793.8	1986	87 03
64	57.00	0.016	0.44	0.78	81	843	84	13 706	1 525.5	1986	87 05 - SUSP 89 03
64	40.50	0.025	0.27	0.84	53	848	81	12 795	1 516.3	1986	87 05
64	59.00	0.010	0.45	0.76	91	837	87	15 083	1 599.0	1986	87 07
64	36.00	0.017	0.35	0.75	85	835	82	14 090	1 516.0	1986	89 12 - SUSP 87 01
64	33.00	0.012	0.50	0.71	180	757	95	16 845	1 859.5	1987	87 10
39	64.71	0.063	0.15	0.74	90	821	88	16 795	1 827.0	1987	89 10
39	66.40	0.042	0.17	0.72	112	810	90	15 898	1 841.8	1987	88 09
192	26.90	0.031	0.30	0.77	67	817	88	15 522	1 844.0	1987	88 10
64	18.00	0.010	0.30	0.67	143	761	75	16 587	1 831.0	1987	88 01
64	56.00	0.072	0.18	0.67	143	817	87	16 754	1 843.0	1987	88 04
18	57.94	0.036	0.36	0.67	120	793	90	15 086	1 832.8	1987	89 04 - SUSP 89 01
64	23.30	0.017	0.24	0.79	64	803	97	16 291	1 750.4	1988	88 08 - SUSP 89 01
64	11.00	0.030	0.20	0.76	71	776	97	13 966	1 687.0	1988	88 10
64	56.00	0.017	0.30	0.79	54	810	82	15 152	1 601.0	1988	88 12
64	32.00	0.030	0.35	0.78	70	793	87	13 655	1 631.0	1986	89 04
64	19.30	0.018	0.43	0.79	76	829	87		1 871.6	1988	89 05
64	29.00	0.030	0.30	0.79	76	829	87		1 856.5	1988	89 05
64	21.50	0.030	0.23	0.77	87	768	87		1 571.3	1987	89 12
11	3.04	0.120	0.14	0.69	154	829	60	19 600	1 814.8	1968	78 09 - SUSP 78 06
5	18.07	0.080	0.20	0.64	180	811	88	19 997	1 893.4	1965	87 12 - SUSP 82 01
42	9.14	0.098	0.10	0.71	121	825	84	16 220	1 830.3	1966	71 01
64	16.75	0.090	0.13	0.75	160	820	89	17 462	1 925.2	1967	86 06
32	9.54	0.080	0.15	0.75	107	820	82	17 750	1 925.4	1968	88 12 - SUSP 86 08
64	16.70	0.080	0.25	0.70	124	825	72	17 360	1 903.0	1968	78 04 - ABAND 79 10
63	19.78	0.080	0.14	0.70	160	825	90	13 472	1 911.1	1978	86 09
136	18.80	0.080	0.11	0.79	89	820	77	17 350	1 856.8	1967	89 11
64	8.00	0.070	0.12	0.68	130	802	78	17 326	1 906.5	1979	83 05 - ABAND 85 12
153	7.00	0.084	0.13	0.68	160	789	90	17 551	1 922.0	1978	87 02
24	11.80	0.080	0.10	0.64	160	790	90	18 003	2 010.1	1983	85 04 - ABAND 88 03
38	14.43	0.080	0.10	0.76	86	789	87	14 566	1 867.4	1969	86 09
459	10.03	0.070	0.14	0.69	190	807	84	19 111	1 830.2	1984	88 09
1 344	12.14	0.069	0.17	0.82	57	838	81	17 000	1 828.2	1984	87 10
64	6.50	0.120	0.10	0.64	160	789	90	18 950	1 930.5	1985	89 10
64	14.32	0.098	0.10	0.64	160	758	90	15 094	1 864.8	1967	89 05
167	65.17	0.097	0.14	0.63	176	801	81	18 600	1 945.2	1965	68 02 - GPP
223	79.86	0.060	0.14	0.71	141	826	84	18 820	1 969.0	1966	89 12
304	24.10	0.050	0.16	0.73	171	811	88	18 060	1 947.7	1966	86 06
101	18.35	0.028	0.30	0.57	225	775	92	18 620	1 943.1	1965	84 08 - GPP

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
RAINBOW SOUTH 107-09W6 (CONTINUED)								
KEG RIVER E	7 150.0	0.50	0.06	3 580.0	429.0	4 010.0	2 347.1	1 662.9
WATER FLOOD								
KEG RIVER F	1 280.0	0.25		320.0		320.0	188.6	131.4
KEG RIVER G	3 180.0	0.48	0.09	1 530.0	286.0	1 820.0	1 067.5	752.5
WATER FLOOD								
KEG RIVER J	514.0	0.35		180.0		180.0	77.2	102.8
KEG RIVER K	173.0	0.45		77.8		77.8	45.5	32.3
KEG RIVER L	95.2	<0.28		26.3		26.3	26.3	
KEG RIVER M	95.3	0.35		33.4		33.4	7.6	25.8
KEG RIVER N	5 000.0	0.10		500.0		500.0	264.9	235.1
KEG RIVER P	340.0	0.45		153.0		153.0	94.3	58.7
KEG RIVER S	476.0	0.45		214.0		214.0	141.7	72.3
KEG RIVER V	288.0	0.45		130.0		130.0	15.1	114.9
RAINIER 017-15W4 GLAUCONITIC B	100.0	0.15		15.0		15.0	9.8	5.2
RANDELL 077-10W5 SLAVE POINT A	204.0	0.05		10.2		10.2	3.7	6.5
RED COULEE 001-17W4 MOULTON A	270.0	0.14	0.09	37.8	24.3	62.1	58.6	3.5
WATER FLOOD								
MOULTON B TOTAL	993.0			62.0	96.1	158.0	156.2	1.8
PRIMARY AREA	119.0	0.08		9.5		9.5		
WATER FLOOD AREA	874.0	0.06	0.11	52.4	96.1	149.0		
MOULTON C	540.0	0.23	0.13	124.0	70.2	194.0	193.2	0.8
WATER FLOOD								
SUNBURST A	299.0	0.04		12.0		12.0	10.9	1.1
SUNBURST B	445.0	0.11		48.9		48.9	46.8	2.1
RED EARTH 088-08W5 SLAVE POINT A TOTAL	14 750.0			812.0	409.0	1 221.0	648.1	572.9
PRIMARY AREA	11 040.0	0.05		552.0		552.0		
WATER FLOOD AREA	3 706.0	0.07	0.13	260.0	409.0	669.0		
SLAVE POINT C	240.0	0.15		36.0		36.0	32.9	3.1
SLAVE POINT E	4 000.0	0.06		240.0		240.0	214.3	25.7
SLAVE POINT F	119.0	0.12		14.3		14.3	11.0	3.3
SLAVE POINT G	137.0	0.15		20.6		20.6	12.0	8.6
SLAVE POINT Q	244.0	0.10		24.4		24.4	5.3	19.1
SLAVE POINT S	880.0	0.10		88.0		88.0	14.9	73.1
SLAVE POINT U	357.0	0.10		35.7		35.7	20.5	15.2
SLAVE POINT V	884.0	0.10		88.4		88.4	33.9	54.5
SLAVE POINT W	153.0	0.10		15.3		15.3	2.5	12.8
SLAVE POINT X	229.0	<0.01		0.1		0.1	0.1	
SLAVE POINT Y	248.0	<0.01		0.4		0.4	0.4	
SLAVE POINT Z	49.0	0.10		4.9		4.9	1.1	3.8
SLAVE POINT AA	74.0	<0.01		0.6		0.6	0.6	
SLAVE POINT BB	914.0	0.10		91.4		91.4	3.2	88.2
SLAVE POINT CC	465.0	0.05		23.3		23.3	0.1	23.2
KEG RIVER B	21.5	0.10		2.2		2.2		2.2
GRANITE WASH A	14 400.0	0.30		4 320.0		4 320.0	3 076.9	1 243.1
GRANITE WASH B	76.6	<0.11		8.2		8.2	8.2	
GRANITE WASH C	2 370.0	0.35		830.0		830.0	707.0	123.0
GRANITE WASH D	254.0	<0.02		4.9		4.9	4.9	
GRANITE WASH E TOTAL	3 158.0			859.0	101.0	960.0	802.9	157.1
PRIMARY AREA	1 140.0	<0.14		153.0		153.0		
WATER FLOOD AREA	2 018.0	0.35	0.05	706.0	101.0	807.0		
GRANITE WASH F	1 280.0	0.04		51.2		51.2	5.8	45.4
GRANITE WASH I	136.0	<0.06		8.1		8.1	8.1	
GRANITE WASH J	533.0	0.10		53.3		53.3	36.9	16.4
GRANITE WASH K	316.0	0.10		31.6		31.6	30.0	1.6
GRANITE WASH L	427.0	<0.02		8.0		8.0	8.0	
GRANITE WASH M	45.6	<0.09		4.0		4.0	4.0	
GRANITE WASH N	68.3	<0.17		11.4		11.4	11.4	
GRANITE WASH O	440.0	0.01		4.4		4.4	4.4	
GRANITE WASH P	132.0	0.15		19.8		19.8	10.4	9.4
GRANITE WASH Q	92.5	<0.02		1.5		1.5	1.5	
GRANITE WASH R	231.0	<0.01		0.1		0.1		0.1
GRANITE WASH S	159.0	<0.01		0.3		0.3	0.3	
GRANITE WASH V	372.0	0.30		112.0		112.0	14.0	98.0

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
177	92.57	0.075	0.12	0.66	159	806	90	18 930	1 964.1	1966	71 09 - GPP
46	69.22	0.086	0.18	0.57	249	797	88	22 328	1 903.8	1967	89 12 - GPP
85	72.48	0.088	0.11	0.66	160	806	88	18 510	1 917.8	1967	71 09 - GPP
30	19.40	0.138	0.15	0.75	101	801	92	17 830	1 941.6	1968	84 11
77	10.70	0.036	0.22	0.75	101	788	95	18 030	1 975.7	1968	82 10
20	13.56	0.057	0.20	0.77	88	797	98	18 290	1 971.6	1968	85 05 - ABAND 88 08
33	8.97	0.050	0.13	0.74	107	46	98	18 230	2 016.1	1969	88 09
172	61.74	0.073	0.14	0.76	159	796	69	18 170	1 983.6	1978	89 12
56	25.00	0.040	0.19	0.75	105	801	90	17 582	1 927.3	1982	85 03
33	16.48	0.120	0.11	0.85	78	784	94	16 716	1 958.4	1985	86 11
64	16.00	0.044	0.16	0.76	101	810	92	17 024	1 937.0	1986	87 04
85	1.00	0.180	0.26	0.88	53	888	38	10 172	1 031.8	1981	88 12 - GPP
64	6.50	0.080	0.32	0.90	29	865	60	4 400	1 843.0	1983	89 12
97	2.53	0.180	0.33	0.91	30	825	27	4 900	799.5	1952	68 07 - GPP
97	5.55	0.187	0.26	0.96	21	825	27	1 480	785.5	1965	77 03 - GPP
16	8.14	0.187	0.26	0.96							
81	5.18	0.180	0.24	0.86	30	825	28	5 050	742.8	1965	85 12 - GPP
89											
65	6.71	0.150	0.50	0.92	35	904	28	2 880	746.2	1975	87 12 - GPP
53	7.62	0.200	0.40	0.92	35	904	28	2 760	698.0	1931	76 12 - GPP
4 456					21	820	48	12 459	1 310.2	1958	88 12 - GPP
3 344	5.26	0.090	0.25	0.93							
1 112	5.31	0.090	0.25	0.93							
91	4.60	0.085	0.25	0.90	24	829	48	12 065	1 346.6	1968	82 12 - GPP
1 216	4.72	0.100	0.25	0.93	42	834	39	12 417	1 264.4	1966	85 07
65	3.35	0.076	0.20	0.90	43	829	82	13 180	1 325.3	1973	89 12 - GPP
65	3.35	0.100	0.30	0.90	43	829	43	13 310	1 328.3	1974	89 12 - GPP
64	6.27	0.100	0.34	0.92	21	821	39	8 803	1 254.0	1984	84 09
320	4.89	0.094	0.35	0.92	21	821	39	8 827	1 354.0	1983	86 06
64	12.00	0.100	0.50	0.93	25	826	41	10 328	1 255.0	1980	82 07
192	11.30	0.066	0.35	0.95	49	828	37	6 249	1 220.3	1981	86 12
64	5.52	0.062	0.25	0.93	19	825	39	12 403	1 262.5	1982	83 02 - SUSP 87 10
64	7.00	0.110	0.49	0.91	32	832	38	11 702	1 209.3	1983	85 05 - ABAND 89 03
64	5.00	0.120	0.32	0.95	16	829	37	9 891	1 205.5	1985	89 12 - SUSP 86 03
64	1.50	0.080	0.25	0.85	57	820	38	12 100	1 342.8	1984	85 08 - SUSP 88 09
64	2.91	0.084	0.45	0.86	21	830	39	11 740	1 313.7	1985	88 12 - SUSP 86 09
64	27.90	0.070	0.23	0.95	16	821	37	11 219	1 237.8	1988	88 10
64	9.30	0.100	0.15	0.92	25	822	39	11 748	1 347.7	1968	84 03 - SUSP 89 02
64	0.40	0.145	0.32	0.85	56	828	40	14 384	1 511.5	1988	88 11
3 776	3.72	0.149	0.20	0.86	56	825	42	16 130	1 433.8	1958	75 12 - GPP
65	1.83	0.094	0.20	0.86	56	825	43	15 820	1 438.4	1965	87 12 - SUSP 87 02
832	3.00	0.140	0.21	0.86	56	825	42	16 000	1 460.9	1956	86 09
64	5.15	0.150	0.41	0.87	48	825	42	15 966	1 470.5	1957	86 08 - ABAND 88 08
1 031					56	825	42	15 380	1 492.0	1959	89 12 - GPP
536	3.13	0.123	0.35	0.85							
495	5.76	0.133	0.35	0.85							
384	4.25	0.130	0.29	0.85	64	826	42	15 850	1 501.4	1965	86 06
65	2.74	0.119	0.25	0.86	56	825	43	15 960	1 512.0	1963	74 12 - SUSP 83 09
256	3.60	0.120	0.44	0.86	56	825	53	15 122	1 503.0	1967	86 06 - GPP
64	5.36	0.134	0.20	0.86	56	825	42	15 960	1 516.0	1968	86 09
129	3.96	0.126	0.23	0.86	56	834	52	15 450	1 520.0	1958	84 03 - ABAND 89 06
65	0.91	0.112	0.20	0.86	56	829	52	15 440	1 469.7	1970	71 03 - SUSP 85 07
65	1.28	0.120	0.20	0.86	60	834	48	15 620	1 506.6	1970	76 12 - SUSP 83 08
65	5.49	0.180	0.20	0.86	57	829	42	15 250	1 435.6	1973	76 12 - SUSP 76 01
64	2.00	0.150	0.20	0.86	56	832	42	17 740	1 466.0	1979	79 12 - GPP
64	2.00	0.120	0.30	0.86	56	834	72	14 756	1 473.5	1979	83 12 - SUSP 81 09
64	3.50	0.150	0.20	0.86	56	825	56	15 089	1 415.7	1980	81 12 - ABAND 81 01
64	3.20	0.180	0.50	0.86	56	825	48	15 277	1 438.9	1980	81 12 - ABAND 81 01
64	6.10	0.140	0.20	0.85	64	829	42	15 083	1 493.0	1982	83 02 - SUSP 88 10

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
RED EARTH 088-08W5 (CONTINUED)								
GRANITE WASH CC	55.7	<0.02		0.8		0.8	0.8	
GRANITE WASH DD	745.0	0.25		186.0		186.0	26.5	159.5
GRANITE WASH EE	531.0	0.05		26.6		26.6	3.1	23.5
GRANITE WASH HH	779.0	0.05		39.0		39.0	21.2	17.8
GRANITE WASH KK	86.2	<0.01		0.1		0.1	0.1	
GRANITE WASH LL	250.0	0.20		50.0		50.0	5.3	44.7
GRANITE WASH NN	410.0	0.03		12.3		12.3	5.4	6.9
GRANITE WASH OO	238.0	0.10		24.0		24.0	11.6	12.4
GRANITE WASH PP	376.0	0.20		75.2		75.2	7.0	68.2
GRANITE WASH QQ	32.7	0.25		8.2		8.2	4.6	3.6
GRANITE WASH RR	526.0	0.20		105.0		105.0	38.6	66.4
GRANITE WASH SS	38.3	<0.02		0.5		0.5	0.5	
GRANITE WASH TT	357.0	<0.01		0.6		0.6	0.6	
GRANITE WASH UU	85.3	0.20		17.1		17.1	12.9	4.2
GRANITE WASH VV	239.0	0.15		35.9		35.9	7.2	28.7
GRANITE WASH XX	258.0	0.25		64.5		64.5	24.7	39.8
GRANITE WASH YY	188.0	<0.01		0.1		0.1	0.1	
GRANITE WASH ZZ	354.0	<0.01		2.2		2.2	2.2	
GRANITE WASH AAA	39.5	0.20		7.9		7.9	1.8	6.1
GRANITE WASH BBB	78.3	<0.01		0.1		0.1	0.1	
GRANITE WASH CCC	244.0	0.20		48.8		48.8	16.1	32.7
GRANITE WASH DDD	120.0	<0.16		18.4		18.4	18.4	
GRANITE WASH EEE	248.0	0.20		49.6		49.6	13.1	36.5
GRANITE WASH FFF	188.0	0.25		47.0		47.0	21.0	26.0
GRANITE WASH GGG	79.4	<0.01		0.1		0.1	0.1	
GRANITE WASH HHH	695.0	0.03		20.9		20.9	16.1	4.8
GRANITE WASH III	160.0	0.20		232.0		232.0	35.2	196.8
GRANITE WASH KKK	284.0	<0.03		6.9		6.9	6.9	
GRANITE WASH LLL	152.0	<0.02		1.7		1.7	1.7	
GRANITE WASH MMM	973.0	0.30		292.0		292.0	192.6	99.4
GRANITE WASH NNN	232.0	<0.01		0.5		0.5	0.5	
GRANITE WASH OOO	89.0	<0.01		0.5		0.5	0.5	
GRANITE WASH PPP	339.0	0.20		67.8		67.8	4.8	63.0
GRANITE WASH QQQ	155.0	0.15		23.3		23.3	3.8	19.5
GRANITE WASH RRR	231.0	0.10		23.1		23.1	7.6	15.5
GRANITE WASH SSS	200.0	0.25		50.0		50.0	8.5	41.5
GRANITE WASH TTT	174.0	0.15		26.1		26.1	4.5	21.6
GRANITE WASH UUU	111.0	0.20		22.2		22.2	5.4	16.8
GRANITE WASH VVV	106.0	0.15		15.9		15.9	4.4	11.5
GRANITE WASH WWW	222.0	0.15		33.3		33.3	3.7	29.6
GRANITE WASH XXX	180.0	0.10		18.0		18.0	0.9	17.1
GRANITE WASH YYY	66.5	0.15		10.0		10.0	6.3	3.7
GRANITE WASH ZZZ	454.0	0.35		159.0		159.0	20.2	138.8
GRANITE WASH A2A	80.4	0.20		16.1		16.1	0.8	15.3
GRANITE WASH B2B	40.9	0.20		8.2		8.2	1.1	7.1
GRANITE WASH C2C	193.0	0.15		29.0		29.0	2.0	27.0
GRANITE WASH D2D	63.6	0.25		15.9		15.9	2.0	13.9
GRANITE WASH E2E	132.0	0.20		26.4		26.4	0.5	25.9
GRANITE WASH F2F	109.0	0.25		27.3		27.3	3.5	23.8
GRANITE WASH G2G	321.0	0.25		80.3		80.3	9.6	70.7
GRANITE WASH I2I	115.0	0.20		23.0		23.0	3.6	19.4
GRANITE WASH J2J	147.0	0.15		22.1		22.1	0.3	21.8
GRANITE WASH K2K	83.0	0.10		8.3		8.3	1.1	7.2
GRANITE WASH L2L	204.0	0.25		51.0		51.0	3.9	47.1
GRANITE WASH M2M	172.0	0.25		43.0		43.0	3.8	39.2
GRANITE WASH N2N	57.5	0.25		14.4		14.4	1.5	12.9
GRANITE WASH O2O	256.0	0.25		64.0		64.0	7.9	56.1
RED ROCK 063-08W6								
CHINOOK A	57.3	<0.01		0.4		0.4	0.4	
CHINOOK G	3 687.0	0.10		369.0		369.0	82.2	286.8
CHINOOK H	120.0	0.10		12.0		12.0	1.6	10.4
RED WILLOW 039-16W4								
GLAUCONITIC A	228.0	<0.02		4.5		4.5	4.5	
GLAUCONITIC B	105.0	<0.01		0.2		0.2	0.2	
GLAUCONITIC D	677.0	0.10		67.7		67.7	0.7	67.0
LOWER MANNVILLE K	561.0	0.05		28.1		28.1		28.1
CAMROSE A	119.0	0.25		29.8		29.8	19.2	10.6
CAMROSE B	195.0	0.25		48.8		48.8	11.1	37.7
CAMROSE C	250.0	0.20		50.0		50.0	16.8	33.2

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	1.50	0.110	0.38	0.85	64	831	42	15 148	1 519.3	1982	84 03 - ABAND 89 02
128	6.94	0.130	0.25	0.86	56	823	42	9 550	1 464.9	1983	86 08
64	6.70	0.180	0.20	0.86	48	845	49	15 737	1 443.3	1981	87 12 - GPP
256	3.37	0.140	0.25	0.86	56	834	42	14 921	1 490.2	1982	89 12
64	1.71	0.157	0.41	0.85	64	852	42	14 360	1 418.8	1984	85 03 - ABAND 86 01
64	5.50	0.150	0.45	0.86	56	843	48	8 185	1 493.9	1985	85 05
128	3.70	0.140	0.28	0.86	56	830	42	15 008	1 453.9	1984	89 12
64	3.94	0.203	0.46	0.86	48	825	42	14 740	1 435.1	1985	89 03
128	3.59	0.170	0.44	0.86	50	842	40	15 726	1 398.1	1984	85 08
80	0.58	0.132	0.38	0.86	54	835	36	15 616	1 413.9	1984	87 12 - SUSP 88 11
96	5.41	0.166	0.29	0.86	56	828	42	14 101	1 479.3	1985	86 06
64	1.39	0.091	0.45	0.86	47	826	46	15 274	1 489.7	1984	85 11 - SUSP 85 07
64	4.50	0.180	0.19	0.85	64	826	42	14 894	1 510.3	1985	85 12 - ABAND 89 07
81	1.70	0.120	0.40	0.86	53	836	36	15 389	1 410.4	1985	88 12
128	2.43	0.150	0.41	0.87	48	825	42	14 437	1 445.6	1966	86 08
64	4.50	0.160	0.35	0.86	56	823	41	14 915	1 467.6	1985	86 03
64	6.00	0.100	0.43	0.86	56	801	44	15 120	1 517.9	1985	89 12 - SUSP 86 11
64	4.50	0.210	0.32	0.86	52	833	38	15 689	1 435.0	1985	89 12 - SUSP 88 02
32	2.10	0.122	0.44	0.86	56	830	42	14 600	1 480.6	1985	86 05
64	3.20	0.090	0.50	0.85	64	826	42	14 240	1 506.2	1986	86 05 - SUSP 86 11
96	3.02	0.140	0.30	0.86	56	823	42	15 422	1 466.6	1986	86 09
64	3.00	0.119	0.39	0.86	56	825	42	15 443	1 495.4	1968	86 06 - ABAND 88 07
64	4.53	0.140	0.29	0.86	56	834	42	14 516	1 455.9	1985	86 08
128	2.76	0.110	0.43	0.85	56	834	42	13 823	1 484.7	1984	88 03
64	2.20	0.080	0.18	0.86	56	834	42	14 397	1 502.9	1982	86 08
128	5.64	0.140	0.20	0.86	56	834	42	14 102	1 476.5	1983	87 12
192	5.64	0.160	0.23	0.87	48	825	42	14 346	1 472.1	1983	86 08
64	4.30	0.150	0.20	0.86	56	834	42	14 605	1 487.7	1980	86 08
64	2.30	0.150	0.20	0.86	56	834	42	15 043	1 491.5	1983	86 08 - ABAND 88 10
192	5.40	0.154	0.30	0.87	48	825	42	15 896	1 450.3	1957	86 08
64	4.50	0.117	0.20	0.86	56	825	42	14 720	1 518.1	1969	86 09 - SUSP 70 04
64	1.39	0.194	0.40	0.86	70	835	40	7 240	1 415.1	1986	86 10 - SUSP 86 10
128	2.83	0.160	0.32	0.86	50	828	45	6 100	1 514.8	1987	89 01
64	2.75	0.167	0.38	0.85	45	831	34	15 657	1 441.9	1987	87 12 - SUSP 89 08
64	3.60	0.160	0.27	0.86	53	833	36	15 259	1 419.6	1985	85 08 - SUSP 89 08
64	3.50	0.160	0.35	0.86	64	852	42	14 839	1 515.5	1987	88 04
64	4.48	0.143	0.50	0.85	57	828	38	15 586	1 427.8	1986	88 04 - SUSP 89 08
64	2.30	0.130	0.32	0.85	64	852	42		1 486.0	1987	88 06
64	2.74	0.140	0.49	0.85	64	852	42	15 274	1 513.0	1987	88 08
64	3.30	0.165	0.25	0.85	64	852	42	14 693	1 503.8	1988	88 08
64	3.00	0.170	0.35	0.85	64	852	42	13 999	1 496.5	1988	88 08
64	1.29	0.148	0.36	0.85	48	829	42	16 057	504.0	1986	87 04
64	7.50	0.180	0.30	0.75	51	777	49	15 353	1 509.1	1985	85 07
64	1.60	0.165	0.44	0.85	64	852	42	14 570	1 472.1	1988	88 10
64	1.00	0.120	0.38	0.86	56	835	56		1 489.1	1988	88 12
64	3.90	0.140	0.35	0.85	64	852	42		1 494.9	1988	88 12
64	1.50	0.140	0.45	0.86	56	835	42	15 246	1 511.0	1988	88 12
64	2.50	0.160	0.40	0.86	56	835	42	14 774	1 476.8	1988	88 12
64	2.40	0.150	0.45	0.86	56	835	42	15 921	1 507.6	1988	89 01
128	2.21	0.176	0.25	0.86	56	835	42		1 471.2	1988	89 01
64	2.50	0.160	0.47	0.85	64	852	43	14 104	1 502.5	1988	89 02
64	2.60	0.160	0.35	0.85	64	852	42		1 503.8	1988	89 02
64	1.85	0.150	0.45	0.85	64	852	42	13 960	1 437.5	1988	89 02
64	3.98	0.150	0.38	0.86	55	835	42		1 473.1	1988	89 03
64	2.95	0.160	0.34	0.86	56	835	42	14 663	1 498.0	1988	89 03
64	1.20	0.150	0.42	0.86	56	835	42		1 488.0	1988	89 03
64	4.67	0.170	0.42	0.87	48	825	42	14 054	1 432.3	1988	89 05
64	1.80	0.090	0.35	0.85	72	830	17	10 143	1 468.1	1979	85 07 - SUSP 85 02
2 135	3.43	0.116	0.38	0.70	133	827	46	10 355	1 533.5	1987	89 02
64	3.85	0.110	0.37	0.70	133	809	44	10 452	1 661.2	1987	88 08
64	3.00	0.220	0.35	0.83	71	868	39	8 697	1 132.0	1981	82 04 - ABAND 86 10
64	2.00	0.180	0.45	0.83	60	850	47	8 634	1 114.7	1981	82 10 - SUSP 82 11
128	4.29	0.220	0.34	0.85	64	852	48	8 154	1 140.4	1988	89 05
128	3.75	0.200	0.27	0.80	90	850	38		1 146.6	1988	89 05
29	9.56	0.053	0.10	0.90	56	890	48	9 730	1 335.8	1983	85 05
64	7.86	0.055	0.12	0.80	59	879	52	9 449	1 332.3	1983	84 05
64	8.30	0.084	0.30	0.80	50	900	38	9 078	1 230.6	1984	85 03

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
RED WILLOW 039-16W4 (CONTINUED)								
CAMROSE D	67.2	<0.01		0.1		0.1	0.1	
CAMROSE E	96.1	0.10		9.6		9.6	3.5	6.1
D-3 A	326.0	<0.01		0.3		0.3	0.3	
REDFISH 092-08W5								
KEG RIVER A	100.0	0.15		16.4		16.4	0.4	16.0
REDLAND 027-23W4								
LOWER MANNVILLE B	98.2	0.20		19.6		19.6	13.9	5.7
REDWATER 057-21W4								
UPPER VIKING G	225.0	<0.01		0.1		0.1		0.1
UP-MID-LOW VIKING A	3 710.0	0.10		371.0		371.0	217.8	153.2
LOWER VIKING B	4 336.0	0.05		217.0		217.0	164.3	52.7
LOWER VIKING H	360.0	0.10		36.0		36.0	30.1	5.9
LOWER VIKING Q	520.0	0.05		26.0		26.0	3.3	22.7
LOWER VIKING S	1 874.0	0.05		93.7		93.7	17.5	76.2
UPPER MANNVILLE E	270.0	<0.01		0.3		0.3	0.3	
BASAL MANNVILLE E	253.0	0.15		38.0		38.0	35.2	2.8
BASAL MANNVILLE F	106.0	0.20		21.2		21.2	16.1	5.1
BASAL MANNVILLE H	1 977.0	0.05		98.9		98.9	67.8	31.1
BASAL MANNVILLE I	266.0	<0.01		1.4		1.4	1.4	
BASAL MANNVILLE J	243.0	0.10		24.3		24.3	15.4	8.9
BASAL MANNVILLE R	188.0	<0.01		0.2		0.2	0.2	
BASAL MANNVILLE T	245.0	<0.01		0.2		0.2	0.2	
ELLERSLIE A	103.0	<0.01		0.1		0.1	0.1	
ELLERSLIE B	49.9	<0.02		0.8		0.8	0.8	
D-3	207 000.0	0.62		128 000.0		128 000.0	125 617.0	2 383.0
RETLAW 012-18W4								
MANNVILLE A	868.0	0.10		86.8		86.8	31.4	55.4
MANNVILLE II	288.0	0.03		8.6		8.6	2.6	6.0
MANNVILLE KK	139.0	<0.04		5.4		5.4	5.4	
MANNVILLE LL	† 500.0	0.20		300.0		300.0	105.5	194.5
MANNVILLE RR	31.8	<0.01		0.2		0.2	0.2	
MANNVILLE SS	429.0	<0.01		1.0		1.0	1.0	
MANNVILLE TT	† 310.0	<0.01		2.8		2.8	2.8	
MANNVILLE B & D	300.0	0.04		12.0		12.0	8.7	3.3
MANNVILLE CCC	290.0	<0.02		4.0		4.0	4.0	
MANNVILLE DDD	52.8	<0.01		0.1		0.1	0.1	
MANNVILLE NNN	187.0	0.15		28.0		28.0	9.5	18.5
MANNVILLE RRR	473.0	0.05		23.7		23.7	13.2	10.5
MANNVILLE WWW	60.2	<0.01		0.2		0.2	0.2	
MANNVILLE YYY	48.4	<0.01		0.2		0.2	0.2	
MANNVILLE A2A	66.6	<0.02		0.8		0.8	0.8	
RICH 034-21W4								
VIKING B	153.0	<0.01		0.1		0.1		0.1
VIKING C	333.0	0.10		33.3		33.3	3.2	30.1
D-2 A	200.0	0.20		40.0		40.0	27.7	12.3
D-3 A	† 333.0	0.45		600.0		600.0	582.9	17.1
WINNIPEGOSIS A	97.2	0.20		19.4		19.4	5.7	13.7
RICHDAL 030-13W4								
UPPER MANNVILLE F	216.0	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE G	† 394.0	0.10		139.0		139.0	33.9	105.1
UPPER MANNVILLE K	466.0	<0.02		5.0		5.0	5.0	
UPPER MANNVILLE L	† 110.0	0.10		111.0		111.0	21.1	89.9
UPPER MANNVILLE S	257.0	0.10		25.7		25.7	4.7	21.0
LOWER MANNVILLE F	116.0	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE O	122.0	<0.01		0.1		0.1		0.1
RICINUS 034-08W5								
CARDIUM A TOTAL	†† 740.0			† 942.0	278.0	2 220.0	† 653.4	566.6
PRIMARY AREA	4 600.0	0.25		† 150.0		† 150.0		
GAS FLOOD AREA	7 137.0	<0.12	0.03	792.5	278.0	† 071.0		
CARDIUM B	850.0	0.20		170.0		170.0	135.5	34.5
CARDIUM C	† 270.0	0.05		63.6		63.6	42.3	21.3
CARDIUM D	535.0	0.25		133.0		133.0	85.3	47.7
CARDIUM E	822.0	0.02		16.4		16.4	5.1	11.3
CARDIUM F	560.0	0.12		67.2		67.2	56.9	10.3

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.75	0.050	0.30	0.80	55	900	38	9 084	1 225.6	1985	89 12 - SUSP 87 09
32	8.30	0.060	0.33	0.90	36	903	43	9 254	1 246.0	1985	86 10
64	12.50	0.060	0.15	0.80	35	947	48	10 108	1 340.8	1981	84 12 - ABAND 84 07
64	5.40	0.055	0.35	0.88	47	829	40	14 328	1 274.7	1987	88 06
91	2.00	0.130	0.50	0.83	58	890	50	11 090	1 597.5	1982	89 12 - GPP
64	3.00	0.200	0.35	0.90	36	882	45	5 102	631.6	1976	83 12 - ABAND 85 02
1 635	2.26	0.190	0.40	0.88	28	800	27	5 030	649.9	1976	83 10 - GPP
1 778	2.60	0.180	0.44	0.92	35	865	28	5 772	680.5	1974	89 07 - GPP
268	1.14	0.220	0.42	0.92	37	847	31	4 605	647.5	1976	87 09 - GPP
256	2.40	0.180	0.49	0.92	30	872	28	5 594	715.7	1984	87 03 - GPP
640	3.98	0.160	0.50	0.92	30	844	28	5 841	658.4	1984	88 07 - GPP
64	3.00	0.260	0.40	0.90	44	885	30	5 996	754.5	1981	81 09 - SUSP 83 12
108	1.83	0.200	0.20	0.80	55	843	41	6 640	1 022.0	1954	84 12 - GPP
64	0.92	0.250	0.20	0.90	35	860	38	6 590	1 014.3	1976	83 12 - GPP
416	3.55	0.240	0.40	0.93	46	925	30	5 962	854.0	1977	86 10 - GPP
64	5.50	0.210	0.60	0.90	50	925	43	6 171	854.3	1979	83 12 - ABAND 89 05
64	2.50	0.260	0.35	0.90	43	855	30	6 751	946.1	1979	80 08 - GPP
16	8.50	0.270	0.45	0.93	30	931	35	6 083	866.1	1980	84 12 - ABAND 82 06
32	4.20	0.270	0.25	0.90	33	923	48	6 122	848.9	1981	82 11 - SUSP 83 12
16	3.00	0.300	0.23	0.93	26	948	34	5 712	832.1	1982	83 07 - ABAND 83 12
64	0.80	0.200	0.47	0.92	32	880	32	6 745	945.9	1984	85 03 - ABAND 88 06
15 199	31.39	0.065	0.25	0.89	33	844	34	7 340	977.8	1948	72 02 - GPP
560	1.72	0.176	0.36	0.80	64	870	34	11 650	1 108.0	1959	84 12 - GPP
128	3.70	0.100	0.30	0.87	62	876	32	10 880	1 092.6	1978	80 12 - GPP
64	4.30	0.080	0.25	0.84	74	865	36	10 560	1 089.5	1977	89 12 - SUSP 86 07
278	3.77	0.227	0.24	0.83	70	891	38	11 690	1 084.3	1979	87 11
64	0.60	0.150	0.35	0.85	66	886	30	11 576	1 074.1	1964	89 12 - SUSP 87 02
64	8.00	0.150	0.35	0.86	62	900	37	11 479	1 077.5	1980	84 12 - SUSP 82 09
128	14.88	0.134	0.41	0.87	58	900	37	11 078	1 082.5	1980	86 12 - SUSP 84 12
125	1.83	0.221	0.30	0.85	62	876	38	11 780	1 091.2	1959	84 12 - GPP
64	2.50	0.270	0.20	0.84	75	896	35	11 838	1 108.8	1981	84 12 - SUSP 86 04
64	0.80	0.160	0.25	0.86	64	885	30	11 943	1 078.0	1980	83 12 - SUSP 83 06
65	3.00	0.170	0.35	0.87	62	870	33	11 366	1 097.4	1980	83 12
192	2.07	0.206	0.32	0.85	73	896	33	11 128	1 097.2	1963	85 09
64	1.10	0.180	0.46	0.88	56	899	34	11 373	1 097.3	1983	83 06 - SUSP 83 10
16	2.00	0.220	0.20	0.86	62	887	32	10 617	1 097.7	1983	84 03 - ABAND 84 02
32	1.70	0.180	0.20	0.85	73	896	33	10 574	1 091.7	1984	85 06 - ABAND 84 11
64	4.30	0.107	0.35	0.80	86	873	39	7 229	1 292.0	1986	86 12 - ABAND 86 12
128	3.60	0.140	0.40	0.86	46	860	40	6 413	1 193.9	1986	89 05
50	7.00	0.080	0.12	0.81	74	865	55	12 868	1 683.9	1983	89 12
15	103.20	0.110	0.10	0.87	64	857	65	14 327	1 796.3	1982	88 12
32	7.50	0.060	0.25	0.90	31	916	60	18 948	2 242.3	1986	87 04
64	4.30	0.160	0.46	0.91	37	882	37	9 147	1 120.5	1981	85 12 - SUSP 84 06
320	5.29	0.190	0.49	0.85	63	852	39	8 135	1 112.5	1979	86 11
395	1.01	0.210	0.33	0.83	80	855	38	9 119	1 117.2	1971	79 12 - SUSP 83 01
128	7.65	0.230	0.42	0.85	60	847	34	9 190	1 109.9	1983	84 09
64	6.24	0.180	0.58	0.85	63	824	37	9 330	1 115.9	1985	86 11
64	1.83	0.170	0.35	0.89	44	865	35	9 410	1 150.6	1977	82 12 - ABAND 81 05
64	2.00	0.230	0.50	0.83	68	859	38	8 700	1 145.2	1981	88 12 - ABAND 83 02
1 489					226	806	83	27 280	2 748.5	1969	88 12
465	12.75	0.140	0.12	0.63							
1 024	8.98	0.140	0.12	0.63							
94	11.38	0.170	0.27	0.64	250	815	82	27 421	2 732.0	1969	86 12 - GPP
695	1.83	0.150	0.10	0.74	131	820	72	17 110	2 467.0	1969	75 08 - GPP
160	5.30	0.120	0.20	0.65	158	815	84	23 890	2 736.8	1968	89 09
444	3.05	0.134	0.13	0.52	323	801	78	26 930	2 650.5	1969	89 12 - GPP
32	20.28	0.135	0.12	0.73	130	788	54	13 900	1 810.5	1969	88 12 - GPP

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
RICINUS 034-08W5 (CONTINUED)								
CARDIUM G	630.0	0.20		126.0		126.0	85.4	40.6
CARDIUM H	1 080.0	0.10		108.0		108.0	85.9	22.1
CARDIUM K	338.0	0.15		50.7		50.7	37.6	13.1
CARDIUM L	2 314.0	0.20		463.0		463.0	146.4	316.6
CARDIUM M	207.0	<0.06		11.3		11.3	11.3	
CARDIUM Q	4 850.0	0.15		728.0		728.0	483.0	245.0
CARDIUM S	1 406.0	0.05		70.3		70.3	41.9	28.4
CARDIUM V	3 230.0	0.05		162.0		162.0	85.9	76.1
CARDIUM W	4 465.0	0.10		447.0		447.0	263.3	183.7
CARDIUM X	311.0	0.20		62.2		62.2	46.4	15.8
CARDIUM Y	237.0	0.10		23.7		23.7	14.0	9.7
CARDIUM Z	450.0	0.03		13.5		13.5	9.6	3.9
CARDIUM AA	512.0	0.05		25.6		25.6	8.7	16.9
CARDIUM BB	327.0	<0.01		1.9		1.9	1.9	
CARDIUM CC	184.0	0.03		5.5		5.5	1.5	4.0
CARDIUM EE	961.0	0.20		192.0		192.0	47.6	144.4
CARDIUM FF	341.0	<0.03		7.5		7.5	2.7	4.8
CARDIUM GG	241.0	0.05		12.1		12.1	9.7	2.4
CARDIUM II	368.0	<0.01		0.1		0.1	0.1	
CARDIUM KK	250.0	0.12		30.0		30.0	24.7	5.3
CARDIUM MM	376.0	0.15		56.4		56.4	5.5	50.9
CARDIUM NN	1 516.0	0.05		75.8		75.8	17.2	58.6
CARDIUM OO	206.0	0.15		30.9		30.9	3.9	27.0
CARDIUM QQ	319.0	0.20		63.8		63.8	16.6	47.2
CARDIUM TT	1 842.0	0.20		368.0		368.0	64.0	304.0
CARDIUM UU	269.0	0.05		12.3		12.3	8.9	3.4
CARDIUM VV	159.0	0.10		15.9		15.9	4.2	11.7
CARDIUM WW	134.0	<0.01		0.4		0.4	0.4	
CARDIUM XX	600.0	0.05		30.0		30.0	24.7	5.3
CARDIUM ZZ	490.0	0.10		49.0		49.0	6.3	42.7
CARDIUM LL & RR	158.0	0.09		14.2		14.2	8.8	5.4
CARDIUM BBB	500.0	0.15		75.0		75.0	23.8	51.2
CARDIUM CCC	538.0	0.15		80.7		80.7	52.7	28.0
CARDIUM DDD	291.0	0.10		29.1		29.1	4.5	24.6
CARDIUM EEE	1 383.0	0.10		138.0		138.0	7.6	130.4
CARDIUM GGG	711.0	0.15		107.0		107.0	9.7	97.3
CARDIUM HHH	95.8	0.10		9.6		9.6	0.5	9.1
CARDIUM III	115.0	0.05		5.8		5.8	0.7	5.1
CARDIUM JJJ	371.0	0.15		55.7		55.7		55.7
CARDIUM KKK	261.0	0.15		39.2		39.2	32.4	6.8
CARDIUM MMM	1 100.0	0.15		165.0		165.0	107.5	57.5
RIVIERE 055-27W4								
WABAMUN A	424.0	0.15		63.6		63.6	3.7	59.9
ROCKYFORD 026-23W4								
UPPER MANNVILLE C	180.0	0.10		18.0		18.0	2.0	16.0
UPPER MANNVILLE D	135.0	0.15		20.3		20.3	12.4	7.9
UPPER MANNVILLE E	382.0	0.10		38.2		38.2	13.8	24.4
UPPER MANNVILLE F	1 069.0	0.10		107.0		107.0	24.8	82.2
LOWER MANNVILLE A	811.0	0.10		81.1		81.1	43.1	38.0
LOWER MANNVILLE B	279.0	0.20		55.8		55.8	32.6	23.2
LOWER MANNVILLE C	104.0	0.10		10.4		10.4	7.2	3.2
LOWER MANNVILLE F	81.1	0.10		8.1		8.1	1.6	6.5
LOWER MANNVILLE G	322.0	0.10		32.2		32.2	1.8	30.4
ROSEBUD 027-21W4								
BLAIRMORE	420.0	0.16		67.2		67.2	63.8	3.4
ROSEVEAR 054-15W5								
SECOND WHITE SPECKS A	914.0	0.10		91.4		91.4	19.0	72.4
ROWLEY 032-20W4								
VIKING C	123.0	0.15		18.5		18.5	9.2	9.3
UPPER MANNVILLE D	874.0	0.10		87.4		87.4	11.2	76.2
UPPER MANNVILLE E	800.0	0.15		120.0		120.0	56.7	63.3
LOWER MANNVILLE A	944.0	<0.01		3.9		3.9	3.9	
LOWER MANNVILLE G	179.0	0.10		17.9		17.9	0.1	17.8
LOWER MANNVILLE H	330.0	0.15		50.0		50.0	27.9	22.1
LOWER MANNVILLE J	160.0	0.10		16.0		16.0	3.4	12.6

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
97	10.10	0.110	0.14	0.68	144	811	71	20 860	2 310.1	1970	88 12
101	18.80	0.098	0.18	0.71	159	806	60	18 930	2 024.8	1970	88 03
65	7.80	0.127	0.12	0.60	213	811	78	28 440	2 679.2	1969	85 12 - GPP
442	6.64	0.120	0.10	0.73	119	815	71	13 973	2 349.8	1972	89 09
210	2.44	0.075	0.23	0.70	160	811	63	18 720	2 061.7	1971	76 12 - SUSP 84 05
705	8.82	0.120	0.11	0.73	113	815	75	15 896	2 511.2	1971	88 12 - GPP
128	12.40	0.134	0.13	0.76	230	806	70	15 501	2 371.7	1974	88 04
256	14.05	0.133	0.10	0.75	131	811	49	13 290	2 105.7	1975	88 04
256	17.00	0.150	0.10	0.76	131	820	49	13 980	2 192.8	1975	88 04
128	12.70	0.028	0.09	0.75	108	806	63	13 618	2 157.1	1975	88 04
128	4.45	0.100	0.34	0.63	186	829	66	26 028	2 761.3	1977	87 08 - GPP
128	4.88	0.120	0.20	0.75	113	825	60	12 360	2 572.2	1977	85 12 - SUSP 87 10
64	16.34	0.090	0.20	0.68	167	827	63	21 130	2 594.2	1977	82 12 - GPP
64	8.94	0.100	0.16	0.68	151	828	60	17 880	2 434.2	1977	88 12 - SUSP 86 06
64	5.80	0.094	0.12	0.60	172	825	59	18 130	2 673.5	1978	82 12 - GPP
192	13.60	0.055	0.12	0.76	115	802	58	14 266	2 155.9	1978	88 04
64	12.60	0.067	0.17	0.76	113	811	64	15 000	2 454.5	1981	88 04 - GPP
64	9.40	0.062	0.15	0.76	130	810	66	15 868	2 518.5	1981	88 04 - GPP
94	9.00	0.090	0.09	0.78	91	806	68	15 343	2 572.1	1981	88 04 - SUSP 83 02
97	4.32	0.135	0.31	0.64	250	816	82	27 022	2 745.6	1969	83 10 - GPP
64	12.00	0.090	0.15	0.64	131	785	72	27 852	2 762.3	1983	89 12 - GPP
64	29.40	0.115	0.09	0.77	91	806	68	14 043	2 237.7	1984	88 04
64	10.10	0.046	0.09	0.76	91	806	68	13 906	2 204.7	1984	88 04
128	9.75	0.037	0.09	0.76	108	814	64	12 255	2 165.2	1985	88 04
256	16.01	0.065	0.09	0.76	108	813	64	12 618	2 285.6	1986	89 08
64	5.60	0.110	0.09	0.75	119	815	71	16 324	2 512.2	1969	89 12
64	4.92	0.097	0.20	0.65	177	819	86	26 264	2 714.3	1986	87 01
64	3.16	0.100	0.15	0.78	91	805	68	26 355	2 370.0	1986	87 03 - SUSP 87 04
129	7.00	0.120	0.20	0.69	158	815	84	23 670	2 764.2	1969	89 09
64	12.00	0.100	0.15	0.75	110	806	74	13 583	2 552.3	1987	88 03
64	4.81	0.085	0.15	0.71	160	805	60	19 075	2 154.3	1982	86 01
23	43.80	0.110	0.33	0.68	188	819	72	19 082	2 797.3	1987	89 09
64	15.50	0.085	0.15	0.75	108	806	63		2 156.8	1976	88 04
64	9.10	0.075	0.10	0.74	106	806	63		2 503.5	1987	88 07
128	12.98	0.136	0.10	0.68	132	804	67	9 985	2 082.9	1987	88 12
256	7.51	0.060	0.21	0.78	91	806	68	11 209	2 095.1	1987	89 02
64	3.50	0.090	0.28	0.66	189	813	60	16 229	2 731.9	1987	89 02
64	5.60	0.080	0.15	0.47	363	807	75		2 582.1	1982	89 04 - SUSP 89 08
64	15.80	0.060	0.10	0.68	132	804	72	12 691	2 251.5	1988	89 05
64	4.57	0.150	0.10	0.66	189	808	60		2 650.4	1969	89 05 - GPP
157	19.30	0.070	0.20	0.65	177	819	86		2 772.2	1968	89 09
64	7.50	0.200	0.48	0.85	54	894	41	8 300	1 236.9	1985	85 10
64	3.00	0.180	0.35	0.80	54	885	46	10 305	1 482.8	1982	83 01
85	1.70	0.180	0.35	0.80	90	884	50	10 707	1 555.9	1985	87 12
128	3.30	0.160	0.32	0.83	69	866	49	10 516	1 583.0	1986	88 01
128	6.29	0.210	0.21	0.80	80	855	50	10 407	1 563.0	1987	88 03
128	6.12	0.190	0.31	0.79	90	879	50	10 711	1 518.3	1979	81 11 - GPP
64	4.80	0.180	0.37	0.80	60	857	46	10 759	1 577.0	1981	84 07
64	2.00	0.170	0.40	0.80	72	855	46	10 615	1 557.6	1982	82 10
64	1.50	0.160	0.40	0.88	46	891	41	10 551	1 535.9	1984	85 10
64	7.00	0.160	0.49	0.88	44	884	50	10 842	1 619.4	1985	86 03
312	1.25	0.173	0.26	0.84	44	876	49	10 000	1 415.2	1956	86 12 - GPP
192	10.00	0.070	0.20	0.85	55	821	69	21 498	1 818.7	1985	89 06
128	1.43	0.140	0.49	0.94	20	825	38	2 500	1 201.2	1974	89 12
128	7.32	0.180	0.39	0.85	51	870	40	7 698	1 417.4	1987	88 04
358	2.03	0.190	0.32	0.85	46	855	53	9 000	1 367.4	1987	88 12
65	17.37	0.140	0.25	0.80	51	870	52	9 480	1 417.9	1964	75 12 - ABAND 75 02
64	2.40	0.180	0.21	0.82	66	847	53	8 922	1 344.8	1976	88 08
128	1.90	0.210	0.24	0.85	48	870	49	7 490	1 348.3	1987	88 09 - GPP
64	2.00	0.200	0.24	0.82	60	869	46	9 582	1 349.0	1981	82 06

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
ROWLEY 032-20W4 (CONTINUED)								
LOWER MANNVILLE K	181.0	<0.01		0.4		0.4	0.4	
PEKISKO A	8 760.0	0.03		262.0		262.0	182.1	79.9
PEKISKO B	61.9	<0.01		0.1		0.1	0.1	
ROYAL 053-15W4								
MIDDLE VIKING D	41.5	0.01		0.4		0.4	0.4	
MIDDLE VIKING E	110.0	<0.01		0.3		0.3	0.3	
RYCROFT 077-05W6								
GETHING B	144.0	<0.01		0.2		0.2	0.2	
CHARLIE LAKE A TOTAL	2 500.0			250.0	776.0	1 026.0	374.3	651.7
PRIMARY AREA	283.0	0.10		28.3		28.3		
WATER FLOOD AREA	2 217.0	0.10	0.35	222.0	776.0	998.0		
CHARLIE LAKE C	519.0	0.10		51.9		51.9	14.5	37.4
CHARLIE LAKE J	133.0	0.15		20.0		20.0	10.2	9.8
CHARLIE LAKE K	114.0	<0.01		0.1		0.1		0.1
CHARLIE LAKE L	348.0	0.10		34.8		34.8	14.6	20.2
CHARLIE LAKE M	579.0	0.15		86.9		86.9	18.8	68.1
HALFWAY B	541.0	0.15		81.2		81.2	21.7	59.5
HALFWAY C	4 260.0	0.15	0.22	639.0	937.0	1 576.0	457.2	1 118.8
WATER FLOOD								
HALFWAY D	684.0	0.15		103.0		103.0	14.5	88.5
HALFWAY E	309.0	0.15		46.4		46.4	13.7	32.7
HALFWAY F	170.0	0.15		25.5		25.5	6.4	19.1
SADDLE HILLS 076-08W6								
CHARLIE LAKE A	349.0	0.10		34.9		34.9	20.2	14.7
CHARLIE LAKE B	169.0	0.10		16.9		16.9	3.0	13.9
CHARLIE LAKE C	123.0	0.10		12.3		12.3		12.3
CHARLIE LAKE D	31.2	0.10		3.1		3.1	0.3	2.8
CHARLIE LAKE E	123.0	0.10		12.3		12.3	2.1	10.2
SAKWATAMAU 063-14W5								
GETHING A	800.0	0.15		120.0		120.0	64.2	55.8
GETHING B	69.4	<0.01		0.1		0.1	0.1	
BELLOY A	736.0	0.15		110.0		110.0	43.4	66.6
SALT CREEK 076-09W5								
SLAVE POINT A	178.0	0.10		17.8		17.8	1.7	16.1
GILWOOD A	144.0	0.15		21.6		21.6	14.0	7.6
SAMSON 044-24W4								
BLAIRMORE A	1 460.0	<0.03		36.7		36.7	36.7	
SAWN LAKE 091-12W5								
SLAVE POINT A TOTAL	2 200.0			206.0	375.0	581.0	129.3	451.7
PRIMARY AREA	700.0	0.08		56.0		56.0		
WATER FLOOD AREA	1 500.0	0.10	0.25	150.0	375.0	525.0		
SLAVE POINT J	10 290.0	0.05		515.0		515.0	211.9	303.1
SLAVE POINT K	337.0	0.25		84.3		84.3	7.6	76.7
SLAVE POINT L	132.0	0.15		19.8		19.8	8.0	11.8
SLAVE POINT M	329.0	0.15		49.4		49.4	5.1	44.3
SAXON 061-24W5								
CARDIUM A	112.0	0.10		11.2		11.2	2.7	8.5
SEAL 082-14W5								
SLAVE POINT A	1 400.0	0.40		560.0		560.0	410.0	150.0
SLAVE POINT B	237.0	0.30		71.1		71.1	24.4	46.7
SLAVE POINT C	230.0	0.25		57.5		57.5	5.1	52.4
SLAVE POINT D	1 382.0	0.35		484.0		484.0	127.1	356.9
SLAVE POINT E	454.0	0.15		68.1		68.1	0.4	67.7
SLAVE POINT F	74.0	0.15		11.1		11.1	5.9	5.2
SEIU LAKE 025-18W4								
LOWER MANNVILLE G	776.0	0.05		38.8		38.8	9.8	29.0
SENEX 092-04W5								
SLAVE POINT A	337.0	0.15		50.6		50.6	3.8	46.8
KEG RIVER N & SLAVE POINT B	494.0	0.10		49.4		49.4	7.2	42.2

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.50	0.170	0.42	0.82	66	864	53	10 158	1 371.7	1981	82 12 - ABAND 88 05
1 812	11.64	0.069	0.30	0.86	70	870	50	10 070	1 365.5	1960	73 06 - GPP
64	1.50	0.100	0.25	0.86	43	870	49	7 677	1 363.3	1981	82 12 - SUSP 82 09
64	0.80	0.180	0.50	0.90	40	840	30	4 052	650.9	1982	88 12 - SUSP 86 03
128	1.14	0.210	0.55	0.80	40	848	33	4 525	615.9	1980	89 12 - SUSP 86 11
64	3.50	0.120	0.37	0.85	60	811	50	10 649	1 234.5	1983	86 12 - SUSP 84 09
1 200					62	889	54	12 774	1 376.3	1981	89 01
168	1.68	0.139	0.13	0.83							
1 032	2.14	0.139	0.13	0.83							
256	1.57	0.192	0.20	0.84	63	865	54	13 057	1 404.8	1982	87 05
107	1.50	0.150	0.35	0.85	55	826	54	13 590	1 460.8	1983	88 12
64	2.16	0.128	0.23	0.84	63	885	54	12 462	1 450.3	1985	89 12 - SUSP 87 03
256	1.22	0.177	0.25	0.84	50	875	54	13 053	1 424.2	1986	88 07
192	2.93	0.170	0.28	0.84	63	29	54	12 393	1 289.4	1987	88 05
192	4.95	0.150	0.52	0.79	93	835	55	13 318	1 415.6	1983	86 03
1 078	4.44	0.155	0.27	0.79	93	832	55	13 101	1 441.5	1985	88 04
256	3.55	0.140	0.32	0.79	80	835	45	12 639	1 386.9	1982	89 01
64	5.00	0.100	0.33	0.80	93	828	55	12 673	1 455.0	1986	88 04
128	2.19	0.126	0.39	0.79	93	40	55	13 613	1 455.8	1987	88 05
192	1.44	0.200	0.19	0.78	91	845	72	15 550	1 749.6	1981	85 07
64	2.40	0.170	0.17	0.78	91	845	72	15 530	1 757.4	1984	85 07
64	2.20	0.140	0.20	0.78	91	845	72	15 205	1 727.1	1982	85 07
64	0.59	0.129	0.20	0.80	70	835	70	14 323	1 724.4	1982	84 05 - SUSP 87 11
64	2.20	0.124	0.10	0.78	91	833	72	17 865	1 934.1	1987	87 12
318	2.42	0.180	0.27	0.79	142	892	61	13 170	1 725.0	1975	85 10 - GPP
65	1.43	0.120	0.25	0.83	142	892	59	13 090	1 664.5	1976	88 01 - SUSP 76 10
320	2.81	0.170	0.42	0.83	65	800	70	14 523	1 795.3	1984	86 10
64	8.24	0.075	0.50	0.90	32	851	55	14 714	1 774.1	1985	86 08
64	4.29	0.096	0.30	0.78	103	839	60	18 348	1 804.1	1966	89 12 - GPP
324	3.99	0.186	0.25	0.81	50	887	60	10 830	1 465.5	1953	83 12 - SUSP 80 05
480					57	822	38	13 169	1 597.7	1983	87 09
288	4.71	0.075	0.21	0.87							
192	14.80	0.076	0.20	0.87							
2 643	10.12	0.068	0.35	0.87	57	822	38	13 521	1 605.9	1984	88 05
64	14.61	0.061	0.32	0.87	46	828	39	13 528	1 629.5	1985	85 12
64	5.72	0.066	0.38	0.88	44	829	37	12 021	1 629.0	1985	86 03
64	11.10	0.075	0.29	0.87	44	831	45	12 934	1 628.8	1985	85 12
64	2.40	0.140	0.35	0.80	82	833	58	13 143	1 686.3	1977	81 10 - GPP
562	4.50	0.092	0.30	0.86	42	830	68	18 287	1 809.4	1974	83 12
192	4.72	0.055	0.46	0.88	39	830	54	18 670	1 829.2	1985	88 01
64	9.71	0.056	0.25	0.88	39	824	54	17 425	1 784.8	1987	87 10
256	10.94	0.066	0.16	0.89	35	818	52	17 564	1 797.5	1985	87 12
64	13.60	0.079	0.25	0.88	39	825	54	17 528	1 809.0	1987	88 03
64	2.70	0.062	0.21	0.88	39	825	54	17 434	1 816.6	1987	88 08
128	6.29	0.180	0.37	0.85	66	857	38	9 270	1 366.0	1979	82 12 - GPP
64	13.41	0.082	0.45	0.87	57	835	30	9 937	1 044.9	1986	86 12
64	17.18	0.080	0.39	0.92	27	830	36	13 105	1 262.8	1987	89 04

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
SENEX 092-04W5 (CONTINUED)								
KEG RIVER A	1 890.0	0.05		94.5		94.5	30.8	63.7
KEG RIVER B	1 367.0	0.25		342.0		342.0	82.1	259.9
KEG RIVER C	1 876.0	0.25		469.0		469.0	78.6	390.4
KEG RIVER D	368.0	0.35		129.0		129.0	21.1	107.9
KEG RIVER E	310.0	0.15		46.5		46.5	18.0	28.5
KEG RIVER H	344.0	0.15		51.7		51.7	3.4	48.3
KEG RIVER I	839.0	0.20		168.0		168.0	28.6	139.4
KEG RIVER J	303.0	0.25		75.8		75.8	20.1	55.7
KEG RIVER K	194.0	0.25		48.5		48.5	8.3	40.2
KEG RIVER L	221.0	0.15		33.2		33.2	0.3	32.9
KEG RIVER M	125.0	0.25		31.3		31.3	2.0	29.3
KEG RIVER O	370.0	0.20		74.0		74.0	0.8	73.2
KEG RIVER P	273.0	0.20		54.6		54.6	12.7	41.9
KEG RIVER Q	222.0	0.25		55.5		55.5	12.5	43.0
KEG RIVER R	687.0	0.25		172.0		172.0	14.9	157.1
KEG RIVER S	328.0	0.20		65.6		65.6	8.4	57.2
KEG RIVER T	156.0	0.15		23.4		23.4	2.1	21.3
KEG RIVER U	205.0	0.15		30.8		30.8	2.7	28.1
KEG RIVER V	204.0	0.05		10.2		10.2	3.4	6.8
KEG RIVER W	137.0	0.25		34.3		34.3	4.6	29.7
KEG RIVER X	89.4	0.25		22.4		22.4	5.3	17.1
KEG RIVER Y	74.4	0.10		7.4		7.4	0.4	7.0
KEG RIVER Z	166.0	0.15		24.9		24.9	0.3	24.6
KEG RIVER AA	112.0	0.05		5.6		5.6	0.4	5.2
SHADOW 074-18W5								
GILWOOD A	447.0	0.30		134.0		134.0	43.5	90.5
GILWOOD B	265.0	0.30		79.5		79.5	24.9	54.6
GILWOOD C	756.0	0.25		189.0		189.0	42.2	146.8
GILWOOD D	384.0	0.25		96.0		96.0	20.8	75.2
GILWOOD E	167.0	0.30		50.1		50.1	25.4	24.7
GILWOOD F	245.0	0.30		73.5		73.5	21.2	52.3
GILWOOD G	201.0	0.25		50.3		50.3	10.1	40.2
GILWOOD H	716.0	0.30		215.0		215.0	69.4	145.6
GILWOOD I	118.0	0.25		29.5		29.5	3.1	26.4
GILWOOD J	368.0	0.25		92.0		92.0	7.3	84.7
GILWOOD K	112.0	0.25		28.0		28.0	5.0	23.0
GILWOOD L	180.0	0.30		54.0		54.0	4.7	49.3
GILWOOD M	91.8	0.20		18.4		18.4	4.9	13.5
GILWOOD N	58.3	0.10		5.8		5.8	2.1	3.7
GILWOOD O	255.0	0.25		63.8		63.8	9.5	54.3
GILWOOD P	38.3	0.15		5.7		5.7	2.0	3.7
GILWOOD R	77.3	0.15		11.6		11.6	0.1	11.5
GILWOOD S	151.0	0.25		30.2		30.2	2.4	27.8
GRANITE WASH A	222.0	0.30		66.6		66.6	13.5	53.1
SHANE 077-02W6								
KISKATINAW	67.2	0.10		6.7		6.7	4.5	2.2
SANDSTONE A								
WABAMUN A	65.5	0.25		16.0		16.0	1.8	14.2
SHEKILIE 118-08W6								
MUSKEG A	95.3	<0.18		16.3		16.3	16.3	
MUSKEG C	233.0	<0.03		5.9		5.9	5.9	
MUSKEG D	280.0	<0.01		0.7		0.7	0.7	
MUSKEG E	213.0	<0.01		0.8		0.8	0.8	
MUSKEG F	110.0	0.20		22.0		22.0	10.7	11.3
MUSKEG G	120.0	0.20		24.0		24.0	13.5	10.5
MUSKEG H	100.0	0.05		5.0		5.0	4.3	0.7
MUSKEG I	75.0	0.35		26.3		26.3	8.7	17.6
MUSKEG J	266.0	0.15		39.9		39.9	7.4	32.5
MUSKEG K	118.0	0.25		29.5		29.5	4.3	25.2
KEG RIVER A	504.0	0.25		126.3		126.3	126.3	
KEG RIVER B	445.0	<0.16		67.4		67.4	67.4	
KEG RIVER C	636.0	0.40		254.0		254.0	139.1	114.9
KEG RIVER D	493.0	0.40		197.0		197.0	151.3	45.7
KEG RIVER E	159.0	<0.07		9.6		9.6	9.6	
KEG RIVER F	238.0	<0.19		45.1		45.1	45.1	
KEG RIVER G	150.0	0.40		60.0		60.0	37.6	22.4
KEG RIVER H	121.0	0.19		23.0		23.0	21.6	1.4
KEG RIVER I	229.0	0.25		57.3		57.3	11.1	46.2

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
512	9.15	0.067	0.30	0.86	55	829	31	13 410	1 253.8	1969	88 06
448	4.81	0.100	0.31	0.92	27	831	35	13 463	1 279.5	1986	87 11
576	5.67	0.096	0.32	0.88	27	828	35	13 783	1 282.9	1985	88 07
64	14.30	0.067	0.31	0.87	42	831	49	13 698	1 270.4	1985	86 07
192	6.28	0.054	0.44	0.85	55	829	31	13 474	1 242.0	1986	87 03
128	7.07	0.071	0.37	0.85	55	829	31	12 240	1 226.1	1987	88 04
192	8.51	0.099	0.39	0.85	55	830	37	13 368	1 258.8	1986	88 04
64	12.60	0.064	0.31	0.85	55	829	31	13 436	1 266.6	1987	87 05
64	6.58	0.077	0.35	0.92	30	832	35	13 163	1 297.0	1987	87 11
64	8.55	0.068	0.30	0.85	55	837	31	12 204	1 222.8	1986	87 05
64	4.40	0.075	0.31	0.86	55	830	31	11 896	1 250.7	1986	87 12 - SUSP 89 01
64	6.20	0.139	0.27	0.92	27	830	36	13 157	1 257.6	1987	88 01
128	3.90	0.090	0.34	0.92	27	39	36	13 026	1 260.3	1987	88 02
64	7.80	0.062	0.22	0.92	27	829	36	13 243	1 233.5	1987	88 05
128	11.58	0.070	0.28	0.92	30	38	40	13 070	1 237.0	1987	88 03
128	5.30	0.090	0.39	0.88	47	39	40	6 771	1 269.6	1987	88 03
64	5.40	0.090	0.41	0.85	55	829	31	13 169	1 242.8	1987	88 03
64	6.60	0.080	0.34	0.92	30	38	35	12 351	1 260.0	1987	88 05
64	9.07	0.059	0.30	0.85	55	829	31	11 942	1 286.9	1970	88 06
64	6.08	0.059	0.30	0.85	55	829	31	13 205	1 249.4	1969	88 06
64	4.20	0.060	0.37	0.88	27	845	35	12 963	1 305.9	1987	88 07
64	2.40	0.100	0.43	0.85	55	829	31	12 997	1 245.1	1987	89 03
64	6.90	0.063	0.35	0.92	27	830	36		1 238.3	1988	89 04
64	4.20	0.060	0.18	0.85	55	834	31		1 230.1	1988	89 08
128	3.90	0.148	0.32	0.89	24	833	83	25 348	2 371.6	1985	88 08
128	2.59	0.130	0.31	0.89	36	840	86	25 206	2 344.3	1985	87 07
256	3.65	0.140	0.35	0.89	23	833	72	25 622	2 374.3	1985	88 05
128	3.06	0.162	0.32	0.89	36	840	86	25 672	2 379.7	1985	87 09
64	2.97	0.130	0.24	0.89	36	838	78	25 306	2 351.0	1984	84 08
64	4.50	0.129	0.26	0.89	26	843	78	25 308	2 352.4	1984	85 01
64	4.05	0.116	0.25	0.89	23	832	86	25 110	2 346.7	1987	87 09
320	3.55	0.120	0.39	0.86	30	840	75	24 358	2 388.7	1987	88 10
64	2.41	0.143	0.40	0.89	26	813	81	25 971	2 417.9	1987	87 12
128	3.65	0.170	0.48	0.89	36	837	84	24 325	2 348.3	1987	88 12
64	1.80	0.170	0.36	0.89	36	835	75	22 839	2 335.8	1988	88 06
64	3.20	0.152	0.35	0.89	36	835	86	24 327	2 351.8	1988	88 07
64	2.29	0.110	0.36	0.89	36	843	86	25 285	2 353.9	1986	86 08
64	1.45	0.116	0.37	0.86	30	840	75	24 488	2 350.8	1987	89 06
64	3.50	0.180	0.29	0.89	36	835	86	25 209	2 373.3	1988	88 09
64	1.20	0.110	0.49	0.89	24	848	82		2 360.1	1988	89 04
64	1.57	0.144	0.40	0.89	36	835	86		2 363.6	1988	89 06
64	2.24	0.160	0.26	0.89	36	835	86		2 348.1	1988	89 06
64	5.81	0.139	0.50	0.86	39	846	87	24 875	2 344.3	1986	86 09
64	1.25	0.160	0.30	0.75	128	815	70	14 360	1 473.9	1977	77 12 - SUSP 87 10
64	4.00	0.040	0.20	0.80	70	852	68	9 300	2 316.3	1985	87 05 - GPP
31	5.79	0.089	0.11	0.67	155	811	83	17 730	1 746.8	1971	75 03 - SUSP 84 10
64	7.60	0.084	0.15	0.67	135	811	83	13 593	1 664.7	1981	86 12 - SUSP 85 01
64	10.50	0.075	0.17	0.67	155	810	83	12 155	1 739.0	1983	86 12 - SUSP 84 07
64	7.80	0.070	0.13	0.70	155	810	83	17 107	1 701.4	1983	86 12 - SUSP 84 10
27	8.37	0.074	0.06	0.70	145	826	75	18 177	1 767.2	1984	87 12
19	11.40	0.092	0.13	0.70	120	834	76	17 000	1 788.7	1984	86 01
23	7.95	0.080	0.10	0.76	93	876	70	17 116	1 802.3	1983	87 05
9	14.39	0.092	0.10	0.70	153	838	68	17 047	1 751.5	1985	87 11
64	12.50	0.050	0.20	0.83	52	849	83	15 858	1 764.2	1977	86 08
64	4.00	0.065	0.11	0.80	66	841	88	20 276	1 761.3	1986	87 08
13	67.06	0.094	0.12	0.70	132	839	83	17 800	1 699.3	1970	89 12 - SUSP 86 12
12	60.62	0.100	0.08	0.68	151	820	81	17 510	1 756.6	1971	82 12 - ABAND 87 08
26	40.75	0.100	0.10	0.68	170	839	83	18 310	1 727.6	1971	71 12 - GPP
15	94.49	0.065	0.15	0.63	176	820	79	18 600	1 728.2	1971	71 12
5	59.04	0.095	0.10	0.63	191	806	79	19 910	1 754.7	1972	74 12 - SUSP 74 11
5	113.39	0.073	0.14	0.69	138	825	84	18 580	1 748.0	1972	88 07 - ABAND 88 03
6	38.16	0.107	0.10	0.68	106	834	83	18 685	1 802.0	1974	87 12 - GPP
9	30.44	0.070	0.10	0.70	132	828	80	15 300	1 777.0	1979	89 09
16	28.40	0.090	0.20	0.70	120	834	83	17 940	1 715.8	1979	82 12 - GPP

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
SHEKILIE 118-08W6 (CONTINUED)								
KEG RIVER J	388.0	0.35		136.0		136.0	93.6	42.4
KEG RIVER K	272.0	0.15		40.8		40.8	29.7	11.1
KEG RIVER L	100.0	0.30		30.0		30.0	18.2	11.8
KEG RIVER M	700.0	0.10		70.0		70.0	26.9	43.1
KEG RIVER N	50.0	<0.15		7.3		7.3	7.3	
KEG RIVER O	525.0	<0.02		10.1		10.1	10.1	
KEG RIVER P	754.0	<0.03		22.5		22.5	22.5	
KEG RIVER Q	500.0	0.30		150.0		150.0	65.5	84.5
KEG RIVER R	350.0	0.15		52.5		52.5	19.5	33.0
KEG RIVER S	41.2	<0.19		7.5		7.5	7.5	
KEG RIVER T	450.0	0.20		90.0		90.0	38.9	51.1
KEG RIVER U	250.0	0.35		88.0		88.0	71.3	16.7
KEG RIVER V	151.0	0.40		60.4		60.4	45.9	14.5
KEG RIVER W	661.0	0.15		99.0		99.0	58.1	40.9
KEG RIVER X	94.1	0.30		28.2		28.2	14.1	14.1
KEG RIVER Y	600.0	0.25		150.0	ERSO	150.0	120.4	29.6
KEG RIVER Z	470.0	0.30		141.0		141.0	41.0	100.0
KEG RIVER AA	282.0	<0.05		12.3		12.3	12.3	
KEG RIVER BB	139.0	<0.06		7.1		7.1	7.1	
KEG RIVER CC	270.0	0.35		94.5		94.5	58.2	36.3
KEG RIVER EE	200.0	0.35		70.0		70.0	33.0	37.0
KEG RIVER FF	2 680.0	<0.01		1.7		1.7	1.7	
KEG RIVER GG	320.0	0.30		96.0		96.0	37.0	59.0
KEG RIVER HH	583.0	<0.01		1.9		1.9	1.9	
KEG RIVER II	205.0	<0.02		3.7		3.7	3.7	
KEG RIVER JJ	98.5	<0.06		5.1		5.1	5.1	
KEG RIVER KK	759.0	<0.02		10.7		10.7	10.7	
KEG RIVER LL	190.0	0.30		57.0		57.0	25.2	31.8
KEG RIVER MM	153.0	0.30		45.9		45.9	19.1	26.8
KEG RIVER NN	200.0	0.25		50.0		50.0	31.8	18.2
KEG RIVER OO	340.0	0.20		68.0	ERSO	68.0	33.1	34.9
KEG RIVER PP	191.0	0.30		57.3		57.3	22.5	34.8
KEG RIVER QQ	795.0	0.40		318.0		318.0	266.0	52.0
KEG RIVER RR	210.0	0.20		42.0		42.0	35.5	6.5
KEG RIVER SS	190.0	0.20		38.0		38.0	7.2	30.8
KEG RIVER TT	530.0	0.10		53.0		53.0	36.9	16.1
KEG RIVER UU	400.0	0.10		40.0		40.0	21.5	18.6
KEG RIVER VV	250.0	0.15		37.5		37.5	19.1	18.4
KEG RIVER WW	306.0	0.25		76.5		76.5	33.8	42.7
KEG RIVER XX	45.0	<0.10		4.4		4.4	4.4	
KEG RIVER YY	300.0	0.10		30.0		30.0	16.3	13.7
KEG RIVER ZZ	700.0	0.05		35.0		35.0	13.2	21.8
KEG RIVER AAA	500.0	0.30		150.0		150.0	55.7	94.3
KEG RIVER BBB	450.0	0.05		22.5		22.5	4.7	17.8
KEG RIVER CCC	500.0	0.30		150.0		150.0	17.7	132.3
KEG RIVER DDD	300.0	0.25		75.0		75.0	10.6	64.4
KEG RIVER EEE	500.0	0.25		125.0		125.0	26.3	98.7
KEG RIVER FFF	1 300.0	<0.01		0.9		0.9	0.9	
KEG RIVER GGG	600.0	0.20		120.0		120.0	7.5	112.5
KEG RIVER HHH	200.0	0.05		10.0		10.0	4.6	5.4
KEG RIVER III	142.0	0.30	0.17	42.6	24.1	66.7	37.3	29.4
WATER FLOOD								
KEG RIVER JJJ	825.0	<0.01		0.4		0.4	0.4	
KEG RIVER KKK	450.0	<0.02		8.7		8.7	8.7	
KEG RIVER LLL	300.0	0.30		90.0		90.0	22.6	67.4
KEG RIVER MMM	330.0	0.20		66.0		66.0	18.1	47.9
KEG RIVER NNN	130.0	<0.02		2.1		2.1	2.1	
KEG RIVER OOO	325.0	0.25		81.3		81.3	30.4	50.9
KEG RIVER PPP	100.0	0.15		15.0		15.0	5.5	9.5
KEG RIVER QOO	384.0	0.20		76.8		76.8	12.0	64.8
KEG RIVER SSS	400.0	0.25		100.0		100.0	15.3	84.7
KEG RIVER TTT	207.0	0.10		20.7		20.7	12.4	8.3
KEG RIVER UUU	500.0	0.30	0.15	150.0	75.0	225.0	55.1	169.9
WATER FLOOD								
KEG RIVER VVV	250.0	0.30		75.0		75.0	9.7	65.3
KEG RIVER WWW	93.8	0.20		18.8		18.8	0.9	17.9
KEG RIVER XXX	130.0	0.25		32.5		32.5	3.2	29.3
KEG RIVER YYY	720.0	0.35		252.0		252.0	37.0	215.0
KEG RIVER ZZZ	239.0	0.25		59.8		59.8	10.2	49.6
KEG RIVER B2B	500.0	0.30		150.0		150.0	7.0	143.0

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	15.00	0.070	0.15	0.68	150	825	74	15 300	1 765.5	1979	80 05 - GPP
25	24.40	0.075	0.15	0.70	132	819	83	20 276	1 722.0	1980	86 12 - GPP
23	8.50	0.080	0.20	0.80	138	823	86	16 104	1 825.3	1980	87 12 - GPP
11	93.60	0.100	0.15	0.80	132	834	83	16 629	1 789.5	1980	85 12 - GPP
12	7.00	0.090	0.15	0.78	142	814	81	14 801	1 747.6	1980	82 01 - SUSP 84 10
11	90.00	0.080	0.15	0.80	126	825	85	17 367	1 777.0	1980	84 12 - ABAND 88 02
16	99.02	0.080	0.15	0.70	124	825	86	16 003	1 768.8	1980	86 12 - SUSP 84 10
11	64.73	0.120	0.14	0.68	122	835	93	14 879	1 714.0	1981	83 12 - GPP
10	75.70	0.080	0.15	0.68	143	820	50	18 292	1 750.5	1981	83 06 - GPP
7	28.00	0.040	0.25	0.70	115	835	87	16 094	1 832.0	1981	83 12 - SUSP 84 08
12	68.90	0.080	0.15	0.80	140	826	86	18 615	1 759.3	1980	86 12 - GPP
11	39.70	0.100	0.17	0.69	140	826	86	19 919	1 773.0	1980	82 01 -
16	17.60	0.090	0.15	0.70	150	825	83	17 730	1 685.5	1979	86 12 - GPP
64	31.90	0.070	0.32	0.68	176	845	83	20 720	1 746.0	1980	84 12 -
11	28.30	0.060	0.30	0.72	95	845	82	17 548	1 747.4	1981	83 12 - SUSP 87 11
28	85.04	0.050	0.20	0.63	151	810	82	20 400	1 795.7	1980	87 11 -
17	63.20	0.067	0.13	0.75	135	830	68	17 403	1 816.0	1969	88 03 -
64	15.00	0.060	0.30	0.70	138	833	69	15 440	1 817.5	1981	88 12 - SUSP 86 06
9	51.00	0.050	0.15	0.71	113	825	82	15 598	1 712.5	1981	88 12 - SUSP 86 07
9	61.50	0.080	0.15	0.70	138	826	80	17 066	1 721.8	1982	84 05 -
11	41.80	0.080	0.20	0.68	130	835	95	15 949	1 828.2	1982	84 06 -
64	55.90	0.120	0.12	0.71	132	834	83	14 257	1 765.6	1983	86 12 - SUSP 84 09
16	38.00	0.090	0.14	0.68	113	834	74	16 928	1 814.0	1983	85 12 -
64	15.30	0.100	0.15	0.70	138	826	80	18 844	1 728.4	1983	86 12 - ABAND 87 09
16	31.50	0.070	0.17	0.70	138	826	80	16 420	1 741.3	1983	88 12 - SUSP 85 11
15	11.00	0.090	0.16	0.79	180	831	63	16 075	1 760.9	1983	85 10 - ABAND 87 10
64	24.50	0.080	0.11	0.68	146	821	83	11 360	1 818.7	1984	89 12 - SUSP 87 04
8	46.50	0.085	0.09	0.66	133	818	70	19 936	1 783.0	1984	85 08 -
16	32.20	0.050	0.15	0.70	130	838	49	15 172	1 760.3	1983	85 12 - SUSP 88 12
12	32.50	0.090	0.10	0.63	111	824	76	19 805	1 763.5	1983	89 12 -
28	35.13	0.059	0.14	0.69	133	816	89	19 700	1 789.7	1983	87 03 -
64	4.50	0.100	0.08	0.72	100	848	79	14 766	1 832.3	1982	83 12 -
30	55.50	0.073	0.10	0.72	119	845	70	17 102	1 742.0	1971	77 05 -
4	42.00	0.180	0.10	0.77	112	870	82	19 097	1 840.0	1983	89 12 -
5	71.00	0.080	0.15	0.77	96	845	71	18 030	1 780.0	1983	88 12 - GPP
12	63.30	0.120	0.17	0.70	130	830	49	16 655	1 783.8	1983	89 12 -
8	93.80	0.090	0.20	0.74	146	827	83	13 891	1 831.5	1983	86 07 - GPP
17	24.80	0.100	0.14	0.69	130	824	98	19 274	1 824.8	1984	88 03 -
13	46.92	0.086	0.19	0.72	80	826	80	15 663	1 671.9	1984	86 12 -
6	33.08	0.041	0.21	0.70	138	826	80	17 050	1 735.1	1984	88 12 - SUSP 86 06
19	20.30	0.120	0.10	0.72	120	835	56	17 858	1 760.0	1984	89 12 - GPP
18	56.40	0.110	0.13	0.72	105	803	85	18 619	1 776.3	1985	89 12 - GPP
11	80.20	0.095	0.11	0.67	151	808	91	18 413	1 756.6	1985	86 10 -
15	46.90	0.100	0.20	0.80	74	845	82	16 996	1 786.8	1985	89 12 - GPP
15	101.10	0.054	0.15	0.72	118	840	60	18 023	1 810.5	1985	86 04 -
7	98.80	0.070	0.14	0.72	113	840	64	15 554	1 838.0	1985	86 05 - GPP
11	66.50	0.113	0.16	0.72	114	840	61	17 824	1 862.0	1985	86 06 -
64	45.30	0.075	0.12	0.68	150	820	82	16 288	1 789.2	1985	85 08 - SUSP 85 05
10	87.00	0.095	0.10	0.80	74	834	82	21 460	1 804.2	1985	86 07 -
8	65.10	0.080	0.20	0.60	195	820	60	11 557	1 787.8	1985	89 12 - GPP
4	79.00	0.069	0.12	0.74	167	835	62	19 427	1 777.8	1985	88 03 -
64	34.50	0.066	0.18	0.69	130	808	98	14 755	1 776.3	1985	86 09 - ABAND 87 05
13	76.94	0.079	0.15	0.67	151	830	91	15 833	1 780.2	1986	87 10 - ABAND 87 11
10	46.09	0.103	0.11	0.71	120	845	71	15 040	1 890.0	1985	86 05 -
14	46.19	0.086	0.14	0.69	130	826	72	18 160	1 756.5	1985	86 05 -
10	33.24	0.076	0.17	0.62	153	830	76	16 750	1 785.5	1985	86 06 - SUSP 86 01
11	46.70	0.099	0.18	0.78	153	811	76	13 601	1 760.1	1986	87 08 -
14	11.67	0.100	0.15	0.72	133	841	70	18 796	1 784.5	1982	87 07 -
16	55.00	0.074	0.17	0.71	149	815	88	14 935	1 798.5	1987	89 12 -
11	42.83	0.144	0.12	0.67	153	848	76	17 950	1 757.5	1987	88 05 -
16	47.50	0.042	0.10	0.72	133	838	70		1 829.3	1987	89 12 -
11	93.18	0.079	0.13	0.71	133	838	70	12 846	1 766.5	1986	88 07 -
15	48.35	0.057	0.16	0.72	133	838	70	16 618	1 775.3	1986	87 07 -
64	7.70	0.040	0.29	0.67	153	37	76	19 846	1 825.9	1987	88 05 - SUSP 89 09
19	24.00	0.050	0.15	0.67	153	838	76	15 338	1 754.0	1987	89 01 - SUSP 89 04
12	85.36	0.110	0.10	0.71	132	834	83	14 536	1 706.2	1987	88 11 -
12	32.00	0.093	0.13	0.77	153	849	76	16 609	1 740.0	1988	89 03 -
10	60.63	0.132	0.12	0.71	132	834	83		1 793.0	1988	89 05 -

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
SHELDON 073-22W5								
GILWOOD A	81.9	<0.02		0.2		0.2	0.2	
SHOAL 082-07W5								
GRANITE WASH A	150.0	0.20		30.0		30.0	9.3	20.7
SHOULDICE 020-23W4								
BOW ISLAND A	78.6	<0.01		0.3		0.3	0.3	
GLAUCONITIC B	29.7	<0.01		0.2		0.2	0.2	
GLAUCONITIC E	500.0	0.20	0.10	100.0	50.0	150.0	86.5	63.5
WATER FLOOD								
GLAUCONITIC G	1 250.0	0.15		188.0		188.0	82.8	105.2
GLAUCONITIC H	351.0	0.15		52.7		52.7	2.8	49.9
GLAUCONITIC I	400.0	0.20		80.0		80.0	39.7	40.3
GLAUCONITIC J	200.0	0.10		20.0		20.0	11.5	8.5
GLAUCONITIC K	145.0	0.10		14.5		14.5	5.8	8.7
GLAUCONITIC M	1 000.0	0.10		100.0		100.0	15.5	84.5
ELLERSLIE A	61.2	<0.04		1.9		1.9	1.9	
ELLERSLIE B	82.9	0.10		8.3		8.3	0.2	8.1
ELLERSLIE C	767.0	0.15		115.0		115.0	47.0	68.0
ELLERSLIE E	172.0	<0.01		0.7		0.7	0.7	
ELLERSLIE F	137.0	0.15		20.6		20.6	0.4	20.2
ELLERSLIE G	45.6	0.15		6.8		6.8	0.8	6.0
SIMONETTE 063-26W5								
DUNVEGAN A	1 920.0	0.10		192.0		192.0	143.3	48.7
DUNVEGAN B	109.0	<0.01		0.2		0.2	0.2	
DUNVEGAN F	73.0	<0.01		0.5		0.5	0.5	
BLUESKY A	62.8	0.10		6.3		6.3	2.3	4.0
GETHING B	310.0	0.10		31.0		31.0	21.2	9.8
GETHING C	126.0	0.10		12.6		12.6	1.6	11.0
NORDEGG A	833.0	0.10		83.3		83.3	11.9	71.4
WABAMUN C	1 510.0	<0.02		29.3		29.3	29.3	
D-3 TOTAL	18 000.0			6 100.0	72.0	6 172.0	5 873.8	298.2
PRIMARY AREA	16 800.0	<0.34		5 620.0		5 620.0		
SOLVENT FLOOD AREA	1 200.0	0.40	0.06	480.0	72.0	552.0		
D-3 B	526.0	0.30		158.0		158.0	45.3	112.7
D-3 C	500.0	0.50		250.0		250.0	90.8	159.2
SINCLAIR 075-12W6								
DOE CREEK B	1 600.0	0.10		160.0		160.0	15.5	144.5
DOE CREEK C	129.0	0.10		12.9		12.9	2.6	10.3
DOE CREEK D	2 630.0	0.10		263.0		263.0	58.7	204.3
DOE CREEK H	50.7	0.10		5.1		5.1	1.7	3.4
DOE CREEK I & J	180.0	0.10		18.0		18.0	2.6	15.4
SKARD 057-19W4								
COOKING LAKE	474.0	0.10		47.4		47.4	33.7	13.7
SLAVE 084-14W5								
SLAVE POINT H	5 080.0	0.30		1 520.0		1 520.0	620.5	899.5
SLAVE POINT L	1 360.0	0.30		408.0		408.0	111.2	296.8
SLAVE POINT N	313.0	0.30		93.9		93.9	10.8	83.1
SLAVE POINT O	339.0	<0.02		4.1		4.1	4.1	
SLAVE POINT P	31.3	<0.01		0.1		0.1	0.1	
SLAVE POINT Q	125.0	0.30		37.5		37.5	9.9	27.6
SLAVE POINT R	103.0	<0.01		0.9		0.9	0.9	
SLAVE POINT S	3 915.0	0.30		1 175.0		1 175.0	496.3	678.7
SLAVE POINT T	410.0	0.25		103.0		103.0	13.9	89.1
SLAVE POINT U	141.0	<0.02		1.6		1.6	1.6	
SLAVE POINT V	172.0	<0.01		0.1		0.1	0.1	
SLAVE POINT X	185.0	0.30		55.5		55.5	4.6	50.9
SLAVE POINT Z	128.0	0.25		32.0		32.0	0.3	31.7
SLAVE POINT AA	290.0	0.25		72.5		72.5	15.0	57.5
SLAVE POINT BB	134.0	0.10		13.4		13.4	2.0	11.4
SLAVE POINT CC	356.0	0.30		107.0		107.0	10.8	96.2
GRANITE WASH B	45.5	0.20		9.1		9.1	2.9	6.2
GRANITE WASH D	187.0	0.25		46.8		46.8	6.0	40.8
GRANITE WASH E	91.8	0.30		27.5		27.5	3.3	24.2
GRANITE WASH F	100.0	0.25		25.0		25.0	5.4	19.6

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	1.60	0.165	0.43	0.85	43	842	94	29 295	2 854.2	1987	89 12 - SUSP 87 06
119	1.70	0.110	0.27	0.92	54	832	50	16 803	1 646.6	1982	89 01
64	1.50	0.150	0.40	0.91	32	847	40	7 729	1 393.0	1984	84 09 - ABAND 84 03
64	0.60	0.140	0.35	0.85	59	871	42	13 503	1 623.5	1982	83 02 - SUSP 83 02
64	5.13	0.230	0.16	0.79	92	849	39	13 529	1 650.9	1976	89 04
121	10.21	0.210	0.25	0.73	120	824	46	13 321	1 642.8	1986	89 10
64	5.76	0.172	0.30	0.79	98	813	42	12 710	1 624.3	1986	87 02
72	4.45	0.210	0.25	0.79	98	838	45	13 134	1 666.6	1987	89 10
64	2.47	0.200	0.20	0.79	98	813	42	13 128	1 664.5	1987	89 06
64	1.80	0.210	0.24	0.79	98	813	43	13 317	1 661.8	1987	88 04
128	7.36	0.184	0.27	0.79							89 06
64	1.60	0.120	0.40	0.83	46	838	40	13 291	1 658.0	1981	83 02 - ABAND 86 02
64	1.50	0.160	0.35	0.83	66	859	44	14 490	1 717.3	1981	82 09
488	1.94	0.160	0.39	0.83	96	854	40	13 876	1 583.7	1972	89 10
64	4.50	0.120	0.40	0.83	66	873	51	14 414	1 679.8	1982	86 12 - ABAND 85 06
64	2.30	0.190	0.41	0.83	125	850	65	13 347	1 684.0	1987	87 08
64	1.20	0.130	0.55	0.83	83	839	45	12 233	1 596.0	1980	89 03
384	7.20	0.130	0.35	0.82	77	822	61	13 375	2 047.3	1980	87 02
64	3.30	0.098	0.36	0.82	70	822	61	13 565	1 927.0	1980	83 12 - ABAND 82 11
64	2.80	0.087	0.35	0.72	97	825	61	13 500	1 884.0	1984	89 12 - SUSP 86 05
64	1.45	0.123	0.14	0.64	199	822	83	20 235	1 416.3	1986	87 05
230	1.86	0.130	0.12	0.64	199	822	83	22 648	2 442.0	1978	84 05
64	3.50	0.120	0.23	0.61	323	773	79	26 357	2 881.2	1981	82 03 - SUSP 89 04
32	22.00	0.150	0.17	0.95	19	902	119	28 702	2 408.1	1988	88 12
64	44.50	0.100	0.17	0.64	172	825	96	32 890	3 351.0	1964	84 02 - SUSP 86 01
3 136					552	792	105	35 670	3 533.5	1958	88 05 - GPP
2 992	28.37	0.062	0.16	0.38							
144	42.11	0.062	0.16	0.38							
64	28.60	0.090	0.16	0.38	552	793	95	32 000	3 547.0	1982	83 04
55	43.10	0.080	0.15	0.31	555	788	105	36 074	3 572.7	1985	89 09
320	4.09	0.210	0.38	0.94	38	837	28	4 468	788.8	1984	86 06
64	2.80	0.150	0.40	0.80	84	861	32	6 674	1 086.0	1978	86 02
512	3.89	0.178	0.21	0.94	70	822	35	7 513	925.2	1978	88 02
64	0.98	0.136	0.34	0.90	37	837	36	6 229	954.0	1987	87 09
64	2.80	0.170	0.37	0.94	19	831	38	6 871	996.6	1987	88 10
80	5.63	0.170	0.32	0.91	28	860	41	8 480	1 119.2	1952	87 07 - GPP
832	10.08	0.085	0.19	0.88	32	827	50	17 200	1 744.5	1982	85 08
320	5.33	0.108	0.17	0.89	32	827	50	16 839	1 670.7	1984	86 04
64	8.70	0.085	0.29	0.93	12	825	56	16 270	1 790.8	1985	85 11
64	8.00	0.095	0.25	0.93	44	820	55	17 315	1 800.8	1984	87 12 - ABAND 89 03
64	1.31	0.060	0.33	0.93	12	825	56	16 744	1 803.1	1985	86 03 - SUSP 86 01
128	3.18	0.057	0.42	0.93	12	825	56	17 107	1 791.9	1985	86 03
64	6.05	0.060	0.48	0.85	12	830	56	16 039	1 773.2	1985	89 12 - ABAND 88 10
1 209	6.07	0.081	0.26	0.89	32	827	50	17 367	1 698.1	1980	87 10
128	8.63	0.057	0.26	0.88	39	847	54	15 878	1 791.1	1985	87 05
64	5.68	0.062	0.29	0.88	39	840	54	16 108	1 797.5	1985	86 05 - ABAND 89 09
64	5.00	0.090	0.32	0.88	36	823	50	16 277	1 690.4	1986	86 08 - SUSP 86 07
128	5.24	0.055	0.43	0.88	36	823	55	15 233	1 743.9	1986	87 05
64	3.80	0.080	0.26	0.89	32	820	50	15 168	1 713.1	1987	87 12
192	2.90	0.080	0.27	0.89	32	40	50	16 396	1 713.8	1987	88 05
64	5.09	0.063	0.26	0.88	36	818	50	15 983	1 794.9	1986	89 12
128	5.39	0.069	0.16	0.89	32	40	50	16 571	1 705.3	1987	88 11
64	2.00	0.070	0.41	0.86	40	825	68	17 657	1 782.5	1985	86 03
64	2.80	0.150	0.18	0.85	46	835	69	16 890	1 753.7	1985	86 05
64	1.80	0.120	0.19	0.82	62	835	69	16 941	1 764.0	1985	86 06
112	1.51	0.110	0.40	0.90	14	38	43	16 043	1 717.3	1987	88 12

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
SNIDE LAKE 071-18W5								
BEAVERHILL LAKE	31 100.0			3 726.0	8 680.0	12 410.0	8 776.9	3 633.1
TOTAL								
PRIMARY AREA	52.0	0.12		6.2		6.2		
WATER FLOOD AREA	31 000.0	0.12	0.28	3 720.0	8 680.0	12 400.0		
BEAVERHILL LAKE B	130.0	0.20		26.0		26.0	11.6	14.4
GILWOOD A	91.2	0.25		22.8		22.8	6.4	16.4
SOUNDING 030-09W4								
UPPER MANNVILLE D	215.0	0.05		10.8		10.8	2.3	8.5
SOUSA 113-04W6								
SULPHUR POINT A	319.0	<0.01		0.3		0.3	0.3	
KEG RIVER A	284.0	<0.04		11.2		11.2	11.2	
KEG RIVER B	140.0	0.10		14.0		14.0	3.9	10.1
KEG RIVER C	308.0	<0.03		7.7		7.7	7.7	
KEG RIVER D	390.0	0.06		83.4		83.4	71.9	11.5
KEG RIVER E	250.0	0.20		50.0		50.0	10.5	39.5
KEG RIVER F	891.0	0.10		89.1		89.1	71.2	17.9
KEG RIVER G	926.0	<0.01		1.9		1.9	1.9	
KEG RIVER H	396.0	0.12		47.5		47.5	43.8	3.7
KEG RIVER I	62.3	<0.04		2.3		2.3	2.3	
KEG RIVER J	256.0	<0.01		0.3		0.3	0.3	
KEG RIVER K	108.0	0.25		27.0		27.0	2.2	24.8
KEG RIVER L	132.0	<0.01		0.1		0.1	0.1	
KEG RIVER M	124.0	0.10		12.4		12.4	5.3	7.1
KEG RIVER N	160.0	0.30		48.0		48.0	9.9	38.1
KEG RIVER O	70.0	0.15		10.5		10.5	2.8	7.7
KEG RIVER P	276.0	0.05		13.8		13.8	0.4	13.4
KEG RIVER Q	272.0	0.25		68.0		68.0	8.3	59.7
KEG RIVER R	179.0	0.30		53.7		53.7	2.3	51.4
KEG RIVER S	121.0	0.25		30.3		30.3	1.4	28.9
SPIRIT RIVER 078-07W6								
DDE CREEK A	217.0	0.05		10.9		10.9	1.1	9.8
DDE CREEK C	4 260.0	0.10		426.0		426.0	59.4	366.6
DDE CREEK E	170.0	0.10		17.0		17.0	0.8	16.2
DDE CREEK F	77.1	0.05		3.8		3.8	0.8	3.0
DDE CREEK G	189.0	0.05		9.5		9.5		9.5
GETHING A	69.4	<0.01		0.1		0.1	0.1	
BALDONNEL A	171.0	<0.01		0.5		0.5	0.5	
CHARLIE LAKE D	240.0	0.10		24.0		24.0	9.3	14.7
CHARLIE LAKE F	54.8	<0.01		0.3		0.3	0.3	
CHARLIE LAKE J	61.8	0.30		18.5		18.5	10.3	8.2
CHARLIE LAKE K TOTAL	814.0			122.4	101.0	223.0	74.0	149.0
PRIMARY AREA	309.0	0.15		46.4		46.4		
WATER FLOOD AREA	505.0	0.15	0.20	76.0	101.0	177.0		
CHARLIE LAKE L	119.0	0.10		11.9		11.9		11.9
CHARLIE LAKE G,H & I	135.0	0.10		13.5		13.5	4.5	9.0
CHARLIE LAKE E & M	1 980.0	0.15		297.0		297.0	69.4	227.6
HALFWAY F TOTAL	6 680.0			1 136.0	1 161.0	2 297.0	865.0	1 432.0
PRIMARY AREA	227.1	0.17		38.6		38.6		
WATER FLOOD AREA	6 453.0	0.17	0.18	1 097.0	1 161.0	2 258.0		
SPRING COULEE								
003-23W4								
RUNDLE	413.0	<0.04		13.0		13.0	13.0	
ST. ALBERT-BIG LAKE								
053-26W4								
BIG LAKE D-1 A	254.0	<0.17		41.3		41.3	41.3	
D-1 D	2 880.0	0.10		288.0		288.0	136.8	151.2
D-1 E	299.0	0.05		15.0		15.0	2.0	13.0
BIG LAKE D-2 A	500.0	0.65		325.0		325.0	293.0	32.0
BIG LAKE D-3 A	3 700.0	0.65		2 400.0		2 400.0	2 197.1	202.9
ST. ALBERT D-3 B	1 750.0	0.60		1 050.0		1 050.0	890.0	160.0
STANMORE 029-11W4								
UPPER MANNVILLE B	283.0	<0.06		15.1		15.1	15.1	
UPPER MANNVILLE G	356.0	0.03		10.7		10.7	6.2	4.5
UPPER MANNVILLE P	1 730.0	0.05		86.4		86.4	33.3	53.1
UPPER MANNVILLE W	36.5	<0.02		0.5		0.5	0.5	
UPPER MANNVILLE Y	168.0	0.10		16.8		16.8	2.4	14.4

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
7 237					59	839	88	26 340	2 630.0	1962	86 07
64	2.00	0.067	0.27	0.83							
7 173	10.49	0.068	0.27	0.83							- GPP
64	3.40	0.095	0.24	0.83	53	829	66	26 037	2 652.8	1985	85 08
64	1.84	0.150	0.42	0.89	36	38	86	24 028	2 654.0	1987	88 05
64	2.10	0.250	0.29	0.90	39	873	33	6 660	919.8	1971	85 06 - GPP
64	17.83	0.046	0.25	0.81	74	876	72	14 070	1 414.6	1969	71 05 - SUSP 85 03
22	33.22	0.060	0.20	0.80	80	839	74	15 220	1 540.5	1969	84 12 - ABAND 84 01
11	55.84	0.037	0.30	0.88	30	839	70	15 000	1 494.5	1967	86 06
16	84.70	0.037	0.31	0.89	32	834	75	14 940	1 478.0	1968	89 12 - SUSP 86 11
74	67.00	0.045	0.28	0.87	39	844	80	15 200	1 508.8	1969	85 12 - GPP
16	29.26	0.075	0.15	0.83	62	849	71	14 930	1 495.3	1970	85 12
47	50.35	0.054	0.19	0.87	39	844	80	15 440	1 522.6	1970	84 12 - GPP
42	53.28	0.060	0.20	0.87	39	844	80	15 580	1 543.5	1970	85 07 - SUSP 84 04
25	62.88	0.040	0.29	0.87	39	844	80	15 200	1 527.0	1970	83 12 - GPP
11	49.01	0.020	0.37	0.89	32	829	75	14 790	1 488.6	1970	82 12 - ABAND 81 02
15	70.01	0.040	0.30	0.87	57	849	80	15 240	1 559.7	1970	81 05 - SUSP 82 09
64	30.30	0.010	0.36	0.87	39	848	80	14 175	1 486.2	1985	86 05
64	55.00	0.010	0.57	0.87	39	875	80	15 662	1 515.5	1986	86 05 - SUSP 86 03
37	16.70	0.032	0.28	0.87	39	843	80	14 844	1 520.0	1986	88 03
25	51.40	0.022	0.35	0.87	39	843	80	15 270	1 520.5	1986	88 03
33	25.30	0.016	0.32	0.77	95	843	80	14 736	1 502.0	1986	88 05
16	63.30	0.040	0.22	0.87	39	843	80	15 322	1 540.3	1987	89 12
64	61.50	0.013	0.39	0.87	39	854	80	15 397	1 535.3	1985	87 09
64	34.00	0.017	0.45	0.88	32	860	68	14 662	1 490.5	1986	86 07
64	63.30	0.010	0.66	0.88	32	38	75	15 059	1 513.2	1986	88 05
64	3.00	0.170	0.26	0.90	39	850	24	1 503	306.5	1985	89 12
1 790	1.59	0.228	0.30	0.94	21	840	29	1 859	553.8	1986	88 10
64	3.30	0.152	0.40	0.88	50	840	28	5 029	492.4	1984	88 08
64	1.05	0.180	0.30	0.91	38	850	25	1 426	300.6	1987	88 04
64	2.20	0.230	0.35	0.90	45	842	28	2 545	545.1	1987	89 03
64	1.70	0.150	0.50	0.85	66	809	20	10 904	1 388.7	1981	83 04 - ABAND 85 06
64	4.42	0.130	0.38	0.75	100	810	52	12 287	1 456.9	1984	85 07 - ABAND 85 10
64	3.00	0.200	0.20	0.78	88	839	69	14 174	1 661.7	1980	80 12 - GPP
64	2.00	0.090	0.42	0.82	60	830	70	13 482	1 627.0	1983	88 12 - SUSP 86 01
100	0.67	0.146	0.23	0.82	64	834	66	12 476	1 473.9	1983	87 12
384					100	837	59	13 166	1 429.3	1983	86 12
64	5.00	0.180	0.33	0.80							
320	1.75	0.166	0.32	0.80							
64	3.50	0.090	0.21	0.75	107	837	62	13 525	1 594.0	1988	88 08 - SUSP 89 09
128	2.06	0.100	0.39	0.84	67	826	62	12 886	1 589.3	1980	85 07
1 287	1.45	0.135	0.17	0.84	67	830	62	13 800	1 578.3	1980	89 10
1 553					91	825	58	13 260	1 431.0	1983	86 08
86	2.55	0.160	0.19	0.80							
1 467	4.24	0.160	0.19	0.80							
331	2.83	0.070	0.25	0.84	46	855	56	10 070	1 835.5	1950	78 10 - SUSP 84 11
110	5.85	0.058	0.20	0.85	70	849	53	9 310	1 225.9	1958	83 12 - SUSP 83 12
240	29.46	0.080	0.40	0.85	70	851	54	9 332	1 222.7	1953	83 10
64	14.40	0.080	0.50	0.81	53	861	50	9 321	1 226.4	1984	89 12
130	16.50	0.034	0.22	0.88	71	844	55	10 620	1 336.5	1956	82 12
101	43.24	0.110	0.06	0.82	62	849	58	11 240	1 463.6	1956	82 12 - GPP
110	22.00	0.098	0.09	0.81	73	855	58	11 030	1 424.9	1952	83 12
65	3.71	0.195	0.32	0.90	42	876	38	8 880	1 043.6	1970	86 12 - SUSP 86 01
64	4.60	0.206	0.35	0.90	43	876	32	9 280	1 062.2	1976	79 12 - SUSP 88 07
480	3.51	0.200	0.43	0.90	56	865	37	9 408	1 048.5	1979	85 12 - GPP
32	2.00	0.120	0.50	0.95	20	910	30	9 419	1 047.2	1978	84 11 - ABAND 89 10
128	1.79	0.160	0.46	0.85	46	890	36	7 371	1 086.3	1985	86 06

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
STANMORE 029-11W4 (CONTINUED)								
UPPER MANNVILLE DD	396.0	0.05		19.8		19.8	3.1	16.7
UPPER MANNVILLE EE	59.6	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE F	98.0	0.10		9.9		9.9	9.0	0.9
LOWER MANNVILLE H	114.0	0.10		11.4		11.4	5.5	5.9
LOWER MANNVILLE L	148.0	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE Q	700.0	0.10		70.0		70.0	37.9	32.1
LOWER MANNVILLE T	171.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE X	62.2	0.15		9.3		9.3	7.2	2.1
LOWER MANNVILLE Y	130.0	<0.02		2.2		2.2	2.2	
LOWER MANNVILLE CC	257.0	0.05		12.8		12.8	0.2	12.6
LOWER MANNVILLE A&B	193.0	0.06		11.6		11.6	10.5	1.1
STEELE 065-25W4								
GRAND RAPIDS R	1 468.0	0.05		73.4		73.4	1.7	71.7
GRAND RAPIDS S	358.0	0.05		17.9		17.9	0.3	17.6
STETTNER 038-20W4								
UPPER MANNVILLE C	186.0	0.05		9.3		9.3	0.7	8.6
LOWER MANNVILLE A	1 110.0	0.01		11.1		11.1	1.0	10.1
D-2 A TOTAL	9 430.0			2 833.0	1 380.0	4 213.0	4 053.0	160.0
PRIMARY AREA	210.0	0.30		63.0		63.0		
WATER FLOOD AREA	9 220.0	0.30	0.15	2 770.0	1 380.0	4 150.0		
D-2 B	95.0	<0.01		3.3		3.3	3.3	
D-2 C	310.0	<0.01		0.1		0.1	0.1	
D-3 A	6 150.0	0.60		3 690.0		3 690.0	3 326.6	363.4
D-3 B	400.0	0.65		260.0		260.0	252.4	7.6
D-3 D	106.0	0.15		15.9		15.9	9.1	6.8
D-3 E	172.0	0.10		17.2		17.2	1.8	15.4
D-3 F	103.0	0.25		25.8		25.8	1.1	24.7
D-3 G	20.8	0.60		12.5		12.5	5.5	7.0
STETTNER NORTH 039-20W4								
UPPER MANNVILLE A	618.0	0.08		49.4		49.4	38.5	10.9
STETTNER SOUTH 037-20W4								
D-2 TOTAL	1 600.0			288.0	80.0	368.0	293.7	74.3
PRIMARY AREA	600.0	0.18		108.0		108.0		
WATER FLOOD AREA	1 000.0	0.18	0.08	180.0	80.0	260.0		
D-2 B	132.0	0.18		23.8		23.8	6.8	17.0
D-3	407.0	0.65		265.0		265.0	242.4	22.6
STRATHMORE 022-25W4								
UPPER MANNVILLE A	227.0	0.06		13.6		13.6	10.9	2.7
LOWER MANNVILLE A	161.0	0.10		16.1		16.1	6.1	10.0
LOWER MANNVILLE B	1 964.0	0.10		196.0		196.0	37.6	158.4
LOWER MANNVILLE C	107.0	0.05		5.3		5.3	0.1	5.2
LOWER MANNVILLE D	166.0	0.10		16.6		16.6	0.7	15.9
STURGEON LAKE 071-23W5								
D-3	7 963.0	0.54		4 300.0		4 300.0	3 513.0	787.0
D-3 B	148.0	0.50		74.0		74.0	7.1	66.9
STURGEON LAKE SOUTH 069-22W5								
TRIASSIC A	4 770.0	0.11		524.0		524.0	446.5	77.5
TRIASSIC B	1 200.0	0.25		300.0		300.0	249.4	50.6
TRIASSIC C	26.6	<0.01		0.2		0.2	0.2	
BELLOY A	62.7	0.10		6.3		6.3	0.3	6.0
BLUERIDGE A	884.0	0.20		177.0		177.0	127.9	49.1
D-3	49 000.0	<0.57		27 800.0		27 800.0	22 329.8	5 470.2
D-3 B	1 210.0	0.10		121.0		121.0	118.0	3.0
D-3 C	818.0	0.55		450.0		450.0	229.1	220.9
D-3 D	268.0	0.25		67.0		67.0	4.7	62.3
D-3 E	177.0	0.05		8.9		8.9	1.3	7.6
SULLIVAN LAKE 034-14W4								
BASAL QUARTZ A	156.0	<0.01		0.4		0.4	0.4	

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
128	4.50	0.190	0.58	0.86	55	875	32	7 969	1 077.2	1987	88 10 - GPP
64	1.23	0.140	0.40	0.90	47	876	27	8 600	1 046.1	1972	78 02 - SUSP 79 02
65	1.83	0.120	0.25	0.92	34	892	38	9 300	1 038.8	1977	77 07 - GPP
64	1.23	0.240	0.30	0.86	51	887	37	9 240	1 045.0	1977	79 05 - GPP
64	2.00	0.180	0.30	0.92	36	876	39	6 270	1 066.1	1978	82 12 - ABAND 81 07
256	1.96	0.230	0.32	0.89	45	863	38	9 461	1 084.7	1980	87 12
64	2.30	0.210	0.40	0.92	126	858	50	9 631	1 087.7	1979	83 12 - SUSP 79 10
64	1.00	0.180	0.40	0.90	18	863	37	6 234	1 072.5	1984	87 12
64	1.17	0.260	0.25	0.89	62	889	37	8 517	1 028.1	1976	88 12 - SUSP 86 05
64	4.70	0.190	0.49	0.88	45	848	38	6 442	1 074.6	1987	88 07 - SUSP 88 12
64	2.70	0.200	0.35	0.86	37	870	49	9 480	1 076.2	1975	84 12 - GPP
64	10.41	0.290	0.20	0.95	18	963	30	4 309	631.8	1988	88 07
16	11.00	0.320	0.33	0.95	19	967	31		627.3	1988	89 01
64	3.17	0.160	0.35	0.88	58	872	35	9 068	1 296.4	1987	88 03
64	17.37	0.160	0.30	0.88	46	870	47	8 140	1 319.8	1974	85 12
2 239					63	876	62	12 000	1 585.9	1949	86 06
112	5.94	0.050	0.22	0.81							
2 127	13.72	0.050	0.22	0.81							
64	2.60	0.080	0.12	0.81	62	887	38	11 800	1 583.1	1978	- GPP
64	12.00	0.060	0.20	0.84	62	887	55	11 767	1 592.0	1979	86 12 - ABAND 84 05
1 861	7.96	0.061	0.17	0.82	67	887	63	12 820	1 626.7	1949	82 12 - SUSP 81 08
133	5.68	0.075	0.15	0.83	62	876	65	12 690	1 648.1	1952	75 08 - GPP
64	5.30	0.060	0.37	0.83	62	876	58	12 086	1 642.7	1984	84 12
64	3.15	0.124	0.18	0.84	62	873	65	11 935	1 645.5	1984	89 12
32	4.00	0.130	0.26	0.84	62	902	65	11 768	1 631.0	1985	86 12
11	3.90	0.075	0.21	0.82	68	887	66	12 100	1 629.0	1983	86 03
											85 09
285	1.85	0.200	0.31	0.85	44	887	33	9 290	1 293.0	1949	82 10 - GPP
280					63	876	62	11 960	1 605.4	1951	85 02 - GPP
120	6.68	0.110	0.15	0.80							
160	8.36	0.110	0.15	0.80							
32	5.09	0.145	0.31	0.81	65	882	63	11 926	1 601.2	1984	85 08 - GPP
175	3.93	0.084	0.12	0.80	75	904	60	12 760	1 653.8	1952	84 12 - GPP
64	3.70	0.150	0.20	0.80	177	800	52	13 680	1 703.2	1963	89 12 - GPP
64	3.40	0.120	0.25	0.82	76	865	49	11 640	1 782.6	1976	79 09 - GPP
660	3.59	0.160	0.30	0.74	118	855	53	15 627	1 803.0	1985	89 08 - GPP
64	2.00	0.150	0.36	0.87	42	845	53	15 668	1 808.8	1981	87 08 - GPP
64	2.70	0.170	0.32	0.83	83	838	45	15 763	1 887.7	1988	89 05 - SUSP 89 12
1 421	19.50	0.052	0.15	0.65	188	839	88	27 240	2 698.4	1952	89 11
32	12.90	0.070	0.21	0.65	178	835	88	24 769	2 860.9	1988	88 09
1 578	4.08	0.150	0.35	0.76	102	844	52	13 890	1 499.6	1955	70 02 - GPP
565	2.83	0.139	0.29	0.76	101	839	54	14 860	1 554.5	1957	88 12 - GPP
32	2.00	0.090	0.40	0.77	104	838	54	13 115	1 553.8	1983	85 04 - ABAND 85 03
64	1.20	0.150	0.36	0.85	58	880	42	14 589	1 645.3	1956	89 01
364	6.43	0.073	0.24	0.68	145	834	82	24 340	2 337.8	1957	84 12 - GPP
6 700	25.00	0.050	0.10	0.65	183	834	88	27 340	2 590.8	1953	87 08 - GPP
446	8.87	0.050	0.15	0.72	133	839	91	25 990	2 660.0	1964	73 12 - GPP
98	13.22	0.102	0.09	0.68	160	841	88	22 899	2 672.1	1983	84 11
32	15.20	0.090	0.10	0.68	160	850	89	23 063	2 658.4	1984	84 12
32	14.37	0.070	0.14	0.64	183	844	87	22 566	2 675.3	1987	89 12
64	1.80	0.220	0.30	0.88	51	877	30	8 477	1 095.3	1980	80 10 - SUSP 81 11

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
SULLIVAN LAKE 034-14W4 (CONTINUED)								
BANFF A	195.0	0.10		19.5		19.5	1.7	17.8
BANFF B	754.0	0.10		75.4		75.4	6.9	68.5
BANFF C	332.0	0.10		33.2		33.2	3.1	30.1
SUNSET 069-20W5								
TRIASSIC A	4 130.0	0.25	0.02	1 030.0	83.0	1 120.0	519.8	600.2
WATER FLOOD								
TRIASSIC B	288.0	0.15		43.2		43.2	19.0	24.2
BEAVERHILL LAKE A	245.0	<0.01		1.1		1.1	1.1	
SWALWELL 029-24W4								
PEKISKO A	1 620.0	0.05		81.0		81.0	58.1	22.9
PEKISKO B	167.0	<0.01		0.7		0.7	0.7	
PEKISKO C	249.0	<0.01		0.5		0.5	0.5	
PEKISKO D	408.0	0.10		40.8		40.8	27.8	13.0
PEKISKO E	37.8	0.10		3.8		3.8	1.0	2.8
PEKISKO F	2 420.0	0.10		242.0		242.0	69.5	172.5
PEKISKO H	603.0	0.02		12.1		12.1	6.6	5.5
PEKISKO I	373.0	0.03		11.2		11.2	1.6	9.6
PEKISKO L	98.0	0.12		11.8		11.8	9.2	2.6
D-2 A	1 120.0	0.20		224.0		224.0	172.9	51.1
D-2 C	394.0	0.25		98.5		98.5	28.6	69.9
D-2 D	477.0	0.25		119.0		119.0	19.1	99.9
SWAN HILLS 068-10W5								
BEAVERHILL LAKE C	98 710.0			12 910.0	20 180.0	33 090.0	19 831.9	13 258.1
TOTAL								
PRIMARY AREA	3 832.0	0.20		766.0		766.0		
WATER FLOOD AREA	94 880.0	0.13	0.22	12 140.0	20 180.0	32 320.0		
BEAVERHILL LAKE D	216.0	<0.01		0.2		0.2	0.2	
BEAVERHILL LAKE E	101.0	0.10		10.1		10.1	0.7	9.4
BEAVERHILL LAKE G	113.0	0.10		11.3		11.3	0.3	11.0
BEAVERHILL LAKE A&B	290 000.0			45 200.0	72 100.0	117 300.0	90 657.1	26 642.9
TOTAL								
PRIMARY AREA	4 880.0	0.12		586.0		586.0		
SOLVENT FLOOD AREA	141 900.0	<0.17	0.35	23 700.0	48 400.0	72 100.0		
WATER FLOOD AREA	143 200.0	0.15	0.17	20 900.0	23 700.0	44 600.0		
SWAN HILLS SOUTH 065-10W5								
BEAVERHILL LAKE A&B	134 800.0			23 170.0	44 280.0	67 450.0	55 551.4	11 898.6
TOTAL								
PRIMARY AREA	2 310.0	0.14		324.0		324.0		
SOLVENT FLOOD AREA	124 800.0	0.18	0.35	22 460.0	43 690.0	66 150.0		
WATER FLOOD AREA	7 646.0	0.05	0.07	382.3	590.7	973.0		
SYLVAN LAKE 037-03W5								
CARDIUM A	550.0	0.12		66.0		66.0	63.4	2.6
CARDIUM B	210.0	0.10		21.0		21.0	11.3	9.7
CARDIUM C	186.0	0.05		9.3		9.3	2.0	7.3
CARDIUM E, 2WS B & OSTRACOD L	181.0	0.07		12.7		12.7	3.7	9.0
SECOND WHITE SPECKS A	484.0	0.02		9.7		9.7	4.6	5.1
SECOND WHITE SPECKS C	685.0	0.10		68.5		68.5		68.5
VIKING E	361.0	0.10		36.1		36.1	31.3	4.8
VIKING G	64.5	0.15		9.7		9.7	5.6	4.1
VIKING H	73.9	0.10		7.4		7.4	3.5	3.9
VIKING J	77.8	<0.02		0.9		0.9	0.9	
VIKING K	120.0	0.15		18.0		18.0	15.0	3.0
VIKING L	80.2	<0.02		1.6		1.6	1.6	
VIKING M	400.0	0.10		40.0		40.0	6.0	34.0
VIKING N	13.8	0.10		1.4		1.4		1.4
VIKING O	65.9	0.10		6.6		6.6	0.5	6.1
VIKING P	72.1	0.15		10.8		10.8	3.2	7.6
VIKING Q	25.1	0.20		5.0		5.0	2.9	2.1
VIKING T	36.2	0.15		5.4		5.4	0.7	4.7
VIKING U	55.9	0.15		8.4		8.4	2.8	5.6
VIKING V	86.0	0.20		17.2		17.2	7.1	10.1
VIKING W	292.0	0.05		14.6		14.6	3.0	11.6

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.20	0.130	0.16	0.87	51	878	43	9 085	1 173.4	1982	88 02 - SUSP 88 07
128	10.19	0.100	0.32	0.85	62	872	36	9 025	1 176.4	1987	88 02
64	6.30	0.180	0.39	0.75	88	861	40	9 296	1 128.7	1988	88 07
1 391	5.46	0.130	0.49	0.82	97	865	60	12 860	1 439.3	1960	80 02 - GPP
96	5.33	0.140	0.51	0.82	76	865	43	14 420	1 390.9	1975	85 05
128	6.74	0.056	0.35	0.78	70	877	86	24 600	2 693.6	1982	85 12 - SUSP 83 09
576	10.40	0.044	0.25	0.82	74	849	53	11 720	1 626.1	1965	81 12 - GPP
65	14.02	0.050	0.55	0.82	74	839	54	12 100	1 700.5	1976	81 12 - SUSP 77 11
65	16.46	0.050	0.43	0.82	74	839	49	10 480	1 705.4	1976	82 12 - SUSP 76 12
128	10.80	0.060	0.40	0.82	71	839	64	10 958	1 665.0	1977	83 08
65	1.83	0.060	0.35	0.82	78	855	43	11 210	1 652.6	1977	79 03
745	8.21	0.070	0.31	0.82	64	871	52	11 010	1 656.8	1979	84 05
128	18.84	0.050	0.39	0.82	67	869	51	10 991	1 626.5	1979	83 12 - GPP
64	8.80	0.133	0.40	0.83	85	874	61	11 167	1 621.1	1980	89 12
64	4.94	0.060	0.37	0.82	71	849	60	11 170	1 710.0	1976	89 12 - GPP
594	4.25	0.080	0.28	0.77	96	839	69	16 580	1 967.8	1969	87 12 - GPP
204	3.73	0.090	0.20	0.72	122	837	62	16 271	1 985.4	1987	89 02
192	7.07	0.060	0.24	0.77	122	837	61	16 079	1 959.3	1987	89 10
25 749					77	815	91	21 950	2 281.4	1958	89 12
2 254	3.91	0.062	0.10	0.78							
23 495	9.28	0.062	0.10	0.78							- GPP
128	9.00	0.030	0.20	0.78	86	818	53	22 363	2 487.8	1982	84 12 - SUSP 84 01
64	3.68	0.064	0.14	0.78	77	818	85	20 146	2 333.0	1987	88 03
64	8.79	0.056	0.50	0.72	97	814	103	20 151	2 651.8	1988	89 03
40 666					100	820	104	22 680	2 527.4	1957	88 11
2 273	5.70	0.067	0.23	0.73							- GPP
7 813	37.00	0.082	0.18	0.73							- GPP
30 580	11.28	0.079	0.28	0.73							
14 913					113	820	107	23 510	2 543.6	1959	87 01
713	9.16	0.063	0.22	0.72							
11 222	22.20	0.084	0.16	0.71							
2 978	6.92	0.065	0.20	0.71							- GPP
411	1.54	0.138	0.25	0.84	71	860	54	27 130	1 763.9	1962	79 12 - GPP
192	1.51	0.120	0.28	0.84	71	847	54	27 230	1 793.6	1976	88 03 - GPP
128	4.03	0.058	0.26	0.84	68	845	54	26 898	1 681.0	1982	88 03 - GPP
128	3.20	0.080	0.31	0.80	62	827	60	8 500	1 931.9	1985	89 10
64	12.00	0.180	0.50	0.70	145	816	64	18 657	2 086.0	1981	83 12 - GPP
64	17.00	0.180	0.50	0.70	135	868	50		1 881.5	1987	89 10
256	2.77	0.110	0.40	0.77	102	839	66	15 130	1 999.5	1972	87 07 - GPP
64	2.80	0.080	0.40	0.75	123	820	36	18 036	1 996.9	1964	81 07 - SUSP 89 01
64	2.20	0.100	0.30	0.75	105	815	58	18 843	1 981.4	1981	82 05 - SUSP 89 04
64	2.70	0.100	0.40	0.75	125	825	60	17 530	1 970.2	1981	89 12 - SUSP 86 12
124	2.15	0.090	0.35	0.77	99	839	66	13 925	2 183.5	1977	83 12
128	1.37	0.090	0.34	0.77	101	839	66	11 706	2 102.8	1983	85 08 - SUSP 87 03
128	3.48	0.210	0.43	0.75	105	800	63	14 105	1 833.2	1982	87 12
64	0.70	0.080	0.50	0.77	101	839	66	11 203	1 881.7	1982	83 10
192	0.98	0.070	0.35	0.77	101	839	66	11 186	1 876.2	1983	85 04 - GPP
64	1.50	0.150	0.35	0.77	101	839	66	14 883	2 019.2	1983	84 09 - GPP
64	1.74	0.045	0.35	0.77	72	845	66	11 289	2 171.5	1978	82 07
64	1.50	0.070	0.30	0.77	101	840	66	11 530	1 972.8	1985	85 10 - GPP
64	1.70	0.100	0.35	0.79	101	839	66	10 513	1 582.2	1985	85 10 - GPP
64	3.00	0.080	0.30	0.80	101	839	66	11 606	2 086.5	1985	87 12 - SUSP 89 05
192	3.38	0.080	0.26	0.76	131	806	44	12 500	1 794.0	1983	88 04

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
SYLVAN LAKE 037-03W5 (CONTINUED)								
VIKING Y	9.6	<0.02		0.1		0.1	0.1	
VIKING Z	80.0	0.15		12.0		12.0	10.9	1.1
VIKING AA	55.2	0.01		0.6		0.6	0.6	
VIKING BB	53.6	0.20		10.7		10.7	5.1	5.6
VIKING CC	52.0	0.10		5.2		5.2	0.6	4.6
VIKING A & S	2 190.0	0.12		264.0		264.0	211.8	52.2
GLAUCONITIC C	337.0	<0.06		18.4		18.4	18.4	
GLAUCONITIC D	172.0	<0.01		0.4		0.4	0.4	
GLAUCONITIC F	333.0	<0.01		0.9		0.9	0.9	
GLAUCONITIC G	341.0	0.10		34.1		34.1	17.5	16.6
GLAUCONITIC H	246.0	0.10		24.6		24.6	5.5	19.1
GLAUCONITIC J	132.0	0.05		6.6		6.6		6.6
GLAUC I, LOW MANN X, LOW MANN DD & BQ A	435.0	0.05		21.8		21.8	13.4	8.4
LOWER MANNVILLE J	211.0	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE N	84.3	0.10		8.4		8.4	0.7	7.7
LOWER MANNVILLE R	529.0	0.02		10.6		10.6	1.1	9.5
LOWER MANNVILLE S	44.0	<0.03		1.1		1.1	1.1	
LOWER MANNVILLE Y	1 301.0	0.10		130.0		130.0	23.6	106.4
OSTRACOD A	254.0	<0.01		1.5		1.5	1.5	
OSTRACOD F	144.0	<0.01		0.6		0.6	0.6	
OSTRACOD M	58.7	0.10		5.9		5.9	3.1	2.8
BASAL QUARTZ B	94.9	0.05		4.7		4.7		4.7
DETRITAL B	973.0	<0.01		1.4		1.4	1.4	
DETRITAL D	359.0	<0.01		0.1		0.1		0.1
DETRITAL E & ELKTON E	443.0	0.08		35.4		35.4	30.6	4.8
JURASSIC A	4 740.0	0.10		474.0		474.0	363.8	110.2
JURASSIC B	222.0	<0.01		0.8		0.8	0.8	
JURASSIC C	1 590.0	0.05		79.5		79.5	59.6	19.9
JURASSIC D	429.0	0.10		42.9		42.9	22.6	20.3
JURASSIC E	726.0	0.04		29.0		29.0	20.1	8.9
JURASSIC I	373.0	0.05		18.7		18.7	1.1	17.6
JURASSIC J	752.0	<0.01		6.1		6.1	6.1	
JURASSIC M	184.0	<0.01		16.5		16.5	16.5	
JURASSIC N	909.0	<0.03		20.7		20.7	12.9	7.8
JURASSIC P	261.0	<0.01		0.1		0.1	0.1	
JURASSIC R	157.0	0.10		15.7		15.7	5.7	10.0
JURASSIC T	183.0	<0.01		0.9		0.9	0.9	
JURASSIC U	374.0	<0.01		0.3		0.3	0.3	
JURASSIC W	357.0	<0.01		0.1		0.1	0.1	
JURASSIC CC	177.0	<0.01		0.4		0.4	0.4	
JURASSIC FF	471.0	0.10		47.1		47.1	7.9	39.2
ELKTON F	454.0	0.10		45.4		45.4	36.9	8.5
ELKTON J	460.0	0.06		27.6		27.6	17.0	10.6
ELKTON K	189.0	0.15		28.4		28.4	12.8	15.6
ELKTON-SHUNDA D	4 830.0	0.15		725.0		725.0	637.4	87.6
ELKTON-SHUNDA E	1 028.0	0.20		206.0		206.0	161.8	44.2
ELKTON-SHUNDA F	539.0	0.10		53.9		53.9	6.3	47.6
ELKTON-SHUNDA G	425.0	0.05		21.3		21.3	5.0	16.3
SHUNDA C	126.0	0.02		2.5		2.5	1.9	0.6
SHUNDA E	82.0	0.08		6.6		6.6	6.6	
SHUNDA G	37.2	<0.01		0.2		0.2	0.2	
SHUNDA H	209.0	0.10		20.9		20.9		20.9
PEKISKO A	120.0	0.01		1.2		1.2		1.2
PEKISKO B	7 950.0	0.29		2 300.0		2 300.0	1 851.0	449.0
PEKISKO C	3 210.0	0.30		963.0		963.0	639.1	323.9
PEKISKO D	1 910.0	0.25		478.0		478.0	375.9	102.1
PEKISKO E	159.0	<0.02		2.5		2.5	2.5	
PEKISKO G	830.0	<0.01		0.1		0.1	0.1	
PEKISKO M	426.0	<0.01		0.1		0.1	0.1	
PEKISKO O	404.0	<0.01		1.4		1.4	1.4	
PEKISKO R	263.0	<0.02		3.0		3.0	3.0	
PEKISKO S	268.0	0.05		13.4		13.4	2.4	11.0
PEKISKO T	155.0	<0.01		0.5		0.5	0.5	
D-3 A	1 620.0	0.01		16.2		16.2	9.3	6.9
D-3 B	944.0	0.20		189.0		189.0	14.0	175.0
D-3 C	785.0	0.35		275.0		275.0	61.9	213.1
TANGENT 080-24W5 TRIASSIC F	137.0	0.10		13.7		13.7		13.7

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	1.00	0.026	0.30	0.82	68	742	64	11 592	2 084.5	1986	89 12 - SUSP 87 08
112	1.00	0.160	0.41	0.76	131	898	44	1 769.8	1 769.8	1983	88 04
64	1.60	0.100	0.30	0.77	102	834	66	11 127	1 872.2	1985	88 07 - ABAND 88 10
128	0.90	0.120	0.50	0.77	102	835	66	12 991	1 746.5	1988	89 01
64	1.80	0.090	0.65	0.77	102	834	41	11 480	1 943.0	1977	79 08
3 200	1.26	0.110	0.35	0.76	110	815	51	15 650	1 900.7	1965	85 11 - GPP
64	8.62	0.130	0.39	0.77	89	887	64	16 790	2 199.1	1964	73 12 - SUSP 80 04
65	4.57	0.100	0.25	0.77	98	910	62	16 420	2 201.0	1975	76 07 - SUSP 78 07
64	9.40	0.120	0.35	0.71	126	807	79	14 350	2 158.9	1983	86 12 - ABAND 85 07
64	6.70	0.140	0.20	0.71	90	808	70	12 180	2 162.6	1974	84 10
64	5.00	0.120	0.20	0.80	62	880	60	11 019	2 155.6	1987	87 10
64	4.20	0.110	0.37	0.71	126	805	79	1 941.3	1 941.3	1986	89 12
64	7.08	0.150	0.20	0.80	108	892	73	20 532	2 387.0	1963	89 12 - GPP
65	2.74	0.200	0.30	0.85	64	915	61	14 090	2 158.0	1976	83 12 - ABAND 80 11
64	2.50	0.100	0.15	0.62	195	795	64	18 020	2 353.3	1978	79 03
64	12.30	0.120	0.30	0.80	80	845	66	17 006	2 140.4	1981	89 12 - GPP
64	1.20	0.090	0.25	0.85	54	888	71	17 609	2 336.1	1978	88 12 - SUSP 84 04
192	9.17	0.120	0.20	0.77	97	871	74	18 157	2 272.7	1987	89 08
64	5.18	0.130	0.24	0.77	80	892	71	17 510	2 284.8	1963	64 04 - SUSP 69 07
64	4.00	0.100	0.25	0.75	105	879	74	17 100	2 316.8	1979	82 12 - ABAND 89 07
64	1.90	0.100	0.30	0.69	145	892	70	17 083	2 309.9	1987	88 05
64	3.00	0.100	0.39	0.81	88	891	70	1 983.3	1 983.3	1986	89 12
65	19.81	0.128	0.25	0.79	80	887	73	16 510	2 197.6	1963	73 02 - SUSP 71 09
65	3.66	0.240	0.20	0.79	80	844	73	16 650	2 176.3	1962	89 12 - SUSP 77 10
64	10.40	0.104	0.18	0.78	102	887	76	19 200	2 431.7	1963	88 12 - GPP
1 251	4.87	0.133	0.25	0.78	96	887	68	17 310	2 278.3	1962	87 10
66	5.79	0.100	0.25	0.78	93	887	71	16 890	2 236.9	1962	64 04 - ABAND 66 10
192	10.50	0.130	0.22	0.78	96	887	71	15 673	2 242.5	1960	83 05 - GPP
138	5.12	0.104	0.25	0.78	94	887	71	17 053	2 225.3	1963	88 12 - GPP
65	12.80	0.150	0.25	0.78	95	898	67	17 070	2 211.9	1964	89 12 - GPP
65	10.97	0.090	0.25	0.78	95	887	71	17 070	2 222.6	1964	85 11 - GPP
128	7.94	0.130	0.27	0.78	96	887	71	17 270	2 249.1	1965	88 12 - ABAND 86 01
64	5.53	0.090	0.25	0.77	103	887	71	16 800	2 202.8	1962	85 12 - SUSP 84 12
192	7.33	0.120	0.31	0.78	83	890	68	17 921	2 269.2	1982	86 03
64	6.80	0.110	0.30	0.78	88	933	60	17 650	2 311.9	1983	84 03 - ABAND 84 09
64	5.10	0.103	0.40	0.78	95	919	65	17 871	2 263.5	1983	84 06 - GPP
64	3.40	0.150	0.30	0.80	83	889	68	15 374	2 303.0	1984	86 01 - ABAND 86 01
64	7.50	0.135	0.26	0.78	98	867	55	17 235	2 239.0	1981	88 12 - ABAND 87 11
64	5.20	0.170	0.19	0.78	98	895	55	15 000	2 232.7	1985	88 12 - ABAND 89 06
64	4.30	0.110	0.25	0.78	100	884	76	16 457	2 262.0	1987	88 03 - ABAND 89 03
128	4.70	0.130	0.25	0.80	78	871	70	16 968	2 304.7	1987	88 08
64	11.00	0.100	0.18	0.78	89	887	76	18 890	2 433.8	1963	87 12 - GPP
64	13.00	0.100	0.35	0.85	95	886	64	17 923	2 393.1	1984	89 10 - GPP
64	4.00	0.120	0.25	0.82	72	911	73	16 846	2 217.1	1984	88 12
626	10.80	0.109	0.16	0.78	93	887	68	17 310	2 267.1	1963	89 01 - GPP
284	4.90	0.123	0.23	0.78	92	881	71	17 271	2 255.8	1953	89 12
64	12.50	0.125	0.30	0.77	74	913	71	16 802	2 302.7	1985	88 04
64	8.50	0.145	0.30	0.77	74	895	71	17 364	2 310.8	1986	88 04
65	1.83	0.170	0.20	0.78	96	892	72	16 800	2 192.7	1972	82 12 - GPP
64	3.20	0.080	0.35	0.77	100	908	70	16 637	2 317.6	1985	88 04 - ABAND 87 09
64	2.82	0.050	0.51	0.84	75	925	70	16 536	2 284.8	1987	89 12 - SUSP 87 08
64	5.52	0.110	0.36	0.84	75	925	70	17 232	2 276.7	1987	88 06
64	3.00	0.105	0.24	0.76	88	886	64	17 229	2 321.8	1979	88 08
1 232	9.24	0.108	0.16	0.77	92	887	69	17 100	2 229.6	1962	70 02
624	9.04	0.090	0.19	0.78	93	887	72	17 440	2 236.3	1963	87 04 - GPP
487	6.58	0.102	0.20	0.73	121	849	76	17 510	2 257.7	1960	88 12 - GPP
27	8.23	0.105	0.20	0.86	85	921	73	15 860	2 154.3	1963	73 02 - SUSP 72 11
74	28.04	0.069	0.25	0.77	62	992	89	17 510	2 153.1	1963	64 12 - SUSP 64 05
65	7.01	0.140	0.13	0.77	94	887	67	17 480	2 292.7	1964	65 12 - ABAND 68 03
128	6.07	0.100	0.35	0.80	121	849	76	16 870	2 261.6	1983	85 10 - SUSP 85 10
64	8.00	0.105	0.35	0.77	145	825	63	17 488	2 263.9	1984	89 12 - SUSP 87 07
64	9.60	0.070	0.20	0.78	145	825	63	16 576	2 194.3	1985	89 12
64	5.00	0.090	0.30	0.77	88	860	74	16 799	2 354.9	1986	87 01 - ABAND 87 03
987	6.16	0.056	0.15	0.56	262	792	79	24 340	2 881.9	1962	88 06 - SUSP 87 11
376	6.10	0.066	0.19	0.77	128	770	85	18 114	2 982.1	1986	89 01
64	25.00	0.075	0.15	0.77	170	800	88	18 478	3 009.1	1986	87 04
64	2.00	0.190	0.25	0.75	105	900	36		856.0	1983	89 08

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
TANGENT 080-24W5 (CONTINUED)								
D-1 A	970.0	0.20		194.0		194.0	97.2	96.8
D-1 B	84.9	<0.11		8.5		8.5	8.5	
D-1 C	246.0	<0.07		14.9		14.9	14.9	
D-1 D	126.0	0.25		31.5		31.5	14.0	17.5
D-1 E	350.0	0.10		135.0		135.0	107.4	27.6
D-1 F	552.0	0.21		116.0		116.0	44.1	71.9
D-1 G	376.0	0.20		75.2		75.2	2.2	73.0
D-1 H	748.0	0.20		349.0		349.0	43.1	305.9
D-1 I	430.0	0.20		86.0		86.0	40.1	45.9
D-1 J	278.0	0.10		27.8		27.8	5.2	22.6
D-1 K	736.0	0.03		22.1		22.1	14.0	8.1
D-1 L	298.0	0.20		59.6		59.6	29.4	30.2
D-1 M	673.0	0.20		135.0		135.0	69.3	65.7
D-1 N	260.0	<0.01		0.1		0.1	0.1	
D-1 O	351.0	0.20		70.2		70.2	3.0	67.2
D-1 P	752.0	0.30		226.0		226.0	23.5	202.5
D-1 Q	310.0	0.05		15.5		15.5	6.3	9.2
D-1 R	664.0	0.10		66.4		66.4	27.1	39.3
D-1 S	188.0	<0.02		2.6		2.6	2.6	
D-1 T	685.0	<0.01		0.1		0.1		0.1
D-1 U	704.0	0.20		141.0		141.0	7.2	133.8
D-1 V	745.0	0.25		436.0		436.0	66.3	369.7
D-1 W	95.6	<0.01		0.1		0.1	0.1	
D-1 X	79.6	<0.01		0.2		0.2	0.2	
D-1 Y	408.0	0.30		122.0		122.0	27.5	94.5
D-1 Z	970.0	0.03		59.1		59.1	14.8	44.3
D-1 AA	246.0	0.20		249.0		249.0	12.2	236.8
D-1 BB	042.0	0.30		313.0		313.0	11.5	301.5
D-1 CC	845.0	0.15		127.0		127.0	14.6	112.4
D-1 DD	133.0	0.15		20.0		20.0	2.5	17.5
D-1 EE	571.0	0.25		143.0		143.0	5.2	137.8
D-1 FF	723.0	0.20		145.0		145.0	5.2	139.8
TEEPEE 074-04W6 CHARLIE LAKE A								
	74.9	0.10		7.5		7.5	5.4	2.1
THORSBY 049-01W5								
GLAUCONITIC A	4 265.0	0.10		426.0		426.0	167.7	258.3
GLAUCONITIC B	500.0	0.10		50.0		50.0	34.1	15.9
GLAUCONITIC C	682.0	<0.01		0.5		0.5	0.5	
GLAUCONITIC G	840.0	0.10		84.0		84.0	1.2	82.8
OSTRACOD A	78.7	<0.01		0.2		0.2	0.2	
THREE HILLS CREEK 035-25W4								
VIKING B	76.0	0.20		15.0		15.0	9.6	5.4
PEKISKO	65.8	<0.03		1.6		1.6	1.6	
PEKISKO B	752.0	0.10		75.2		75.2	27.4	47.8
D-2 A	82.1	0.20		16.4		16.4	5.9	10.5
D-3 A	193.0	<0.01		0.7		0.7	0.7	
TINDASTOLL 036-01W5								
BELLY RIVER A	2 800.0	0.10		280.0		280.0	119.9	160.1
BELLY RIVER B	480.0	0.01		4.8		4.8	2.7	2.1
BELLY RIVER C	248.0	<0.01		0.1		0.1		0.1
BELLY RIVER E	275.0	<0.01		0.1		0.1		0.1
BELLY RIVER F	442.0	0.02		8.8		8.8	1.0	7.8
BELLY RIVER G	87.4	<0.01		0.1		0.1		0.1
VIKING A	58.0	0.15		8.7		8.7	4.0	4.7
VIKING B & LOWER MANNVILLE B	149.0	0.05		7.5		7.5	1.1	6.4
LOWER MANNVILLE A	489.0	<0.01		0.4		0.4	0.4	
PEKISKO A	228.0	0.04		9.1		9.1	1.6	7.5
TOMAHAWK 052-05W5								
LOWER MANNVILLE A	141.0	0.10		14.1		14.1	0.8	13.3
LOWER MANNVILLE B	74.0	0.10		7.4		7.4	0.8	6.6
OSTRACOD A	570.0	0.15		85.5		85.5	17.3	68.2
NORDEGG A	1 250.0	0.05		62.5		62.5	21.5	41.0
NORDEGG B, BANFF B & C	1 468.0	0.10		146.8		146.8	37.8	109.0

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	50.50	0.050	0.24	0.79	78	839	62	18 804	1 783.5	1981	83 04
64	6.00	0.040	0.30	0.79	80	839	55	18 591	1 763.5	1982	82 10 - ABAND 89 05
64	21.30	0.030	0.24	0.79	75	839	68	16 360	1 783.5	1982	84 02 - ABAND 88 05
128	9.12	0.026	0.50	0.83	62	845	60	16 460	1 766.3	1983	87 08
64	67.80	0.050	0.21	0.79	82	839	56	18 579	1 781.9	1983	89 12
64	28.17	0.057	0.32	0.79	80	855	58	18 949	1 830.9	1983	88 02
64	42.50	0.025	0.30	0.79	84	843	58	18 520	1 773.0	1983	84 01
128	54.04	0.039	0.20	0.81	84	843	59	18 976	1 796.7	1983	88 03
64	45.00	0.030	0.40	0.83	67	823	62	18 334	1 774.0	1983	84 11
64	59.20	0.014	0.37	0.79	62	130	36	18 423	1 769.2	1988	88 11
64	44.37	0.040	0.18	0.79	62	823	58	19 580	1 882.5	1984	86 12
64	28.50	0.030	0.31	0.79	80	843	58	16 900	1 776.5	1984	84 12
64	46.20	0.040	0.28	0.79	80	843	59	17 713	1 761.9	1984	84 12
64	17.40	0.040	0.26	0.79	88	903	54	18 972	1 799.3	1984	88 12 - SUSP 85 01
64	31.70	0.030	0.27	0.79	78	840	60	18 262	1 802.9	1984	85 02
64	66.40	0.040	0.44	0.79	72	827	64	12 639	1 787.8	1984	85 02
64	21.40	0.035	0.22	0.83	62	855	60	18 979	1 813.8	1984	89 12
64	30.98	0.053	0.20	0.79	78	827	59	17 794	1 804.9	1984	87 12
64	19.70	0.030	0.40	0.83	62	857	58	18 445	1 783.1	1984	85 05 - ABAND 87 02
64	89.50	0.024	0.40	0.83	62	843	60	17 716	1 775.9	1985	85 09 - ABAND 85 10
64	81.50	0.025	0.35	0.83	62	843	60	17 728	1 782.5	1985	85 09
128	41.60	0.050	0.21	0.83	62	843	60	18 217	1 802.5	1985	88 07
64	7.50	0.040	0.40	0.83	62	843	60	5 921	1 775.5	1985	89 12 - SUSP 86 11
64	30.70	0.010	0.50	0.81	77	843	59	17 738	1 783.7	1985	86 03 - ABAND 87 08
64	21.90	0.045	0.22	0.83	62	843	60	16 688	1 776.4	1986	87 08
64	100.10	0.050	0.24	0.81	77	847	60	17 186	1 827.5	1987	89 12
64	54.30	0.060	0.28	0.83	62	844	60	17 299	1 796.7	1987	88 04
64	59.10	0.042	0.19	0.81	77	858	59	17 270	1 820.0	1987	88 04
64	44.10	0.041	0.12	0.83	62	815	60	18 371	1 771.5	1987	88 06
64	8.73	0.040	0.31	0.86	62	845	60	16 986	1 742.2	1987	88 09
64	33.60	0.040	0.18	0.81	77	859	55	18 076	1 807.6	1988	89 01
128	21.90	0.040	0.25	0.86	77	859	60	18 531	1 764.0	1985	89 03
64	1.24	0.185	0.60	0.85	68	844	49	14 880	1 664.4	1987	88 08
494	11.98	0.130	0.28	0.77	86	849	54	11 990	1 490.4	1979	89 11
64	6.79	0.180	0.17	0.77	66	867	63	12 222	1 450.3	1973	88 03 - GPP
128	7.24	0.148	0.29	0.71	110	868	60	12 415	1 546.8	1984	88 06 - SUSP 85 03
64	12.90	0.133	0.15	0.90	95	866	62	11 654	1 360.3	1985	85 12 - SUSP 88 10
64	1.54	0.152	0.30	0.75	110	866	53	12 145	1 511.0	1981	82 06 - SUSP 84 01
128	1.00	0.120	0.42	0.85	67	822	56	11 597.0	1 597.0	1987	89 07
65	5.58	0.037	0.40	0.82	71	860	66	11 720	1 794.1	1953	73 02 - SUSP 72 01
256	7.76	0.060	0.24	0.83	63	774	64	11 524	1 856.3	1987	88 04
64	4.70	0.050	0.22	0.70	130	841	65	17 135	2 150.0	1984	84 11
64	9.50	0.080	0.25	0.53	291	763	62	17 106	2 233.5	1981	88 12 - SUSP 85 02
904	3.50	0.150	0.33	0.88	50	827	40	5 951	1 175.8	1980	85 09
64	9.80	0.150	0.42	0.88	52	865	35	5 462	1 184.3	1981	85 12
64	3.70	0.170	0.30	0.88	36	876	43	6 072	1 197.0	1983	83 07 - ABAND 83 05
64	4.10	0.170	0.30	0.88	36	815	43	5 081	1 160.0	1983	83 07 - ABAND 83 09
64	10.20	0.140	0.45	0.88	36	815	43	4 832	1 188.7	1983	89 12
64	2.30	0.150	0.55	0.88	36	815	43	1 179.1	1 179.1	1988	89 02 - ABAND 89 06
64	0.80	0.220	0.37	0.82	68	844	64	13 789	1 717.6	1987	88 12
64	3.40	0.110	0.19	0.77	85	851	74	1 910.0	1 910.0	1988	88 12
64	13.00	0.120	0.30	0.70	155	897	70	27 500	1 997.8	1981	82 02 - ABAND 82 09
64	5.20	0.110	0.20	0.78	85	890	70	15 480	2 055.5	1982	84 12
32	6.00	0.150	0.43	0.86	58	978	52	15 989	1 707.0	1979	80 02
16	4.00	0.180	0.34	0.97	45	957	46	1 619.5	1 619.5	1988	88 12
298	2.53	0.140	0.29	0.76	103	882	54	15 349	1 710.7	1987	89 12
277	4.93	0.180	0.34	0.77	115	887	53	15 112	1 651.8	1981	87 12
128	12.20	0.165	0.33	0.85	40	945	51	15 079	1 608.3	1984	87 04 - GPP

TABLE 2-4

FIELD POOL	1 INITIAL VOLUME IN PLACE 10 ³ m ³	3 RECOVERY		5 INITIAL ESTABLISHED RESERVES			7 CUMULATIVE PRODUCTION 10 ³ m ³	8 REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
TOMAHAWK 052-05W5 (CONTINUED)								
NORDEGG C & BANFF D	374.0	0.10		37.4		37.4	10.7	26.7
BANFF A	150.0	<0.01		0.1		0.1		0.1
BANFF E	28.5	0.10		2.9		2.9	0.6	2.3
TONY CREEK NORTH 064-21W5								
VIKING A	419.0	0.10		41.9		41.9	0.4	41.5
CADOMIN A	265.0	0.03		8.0		8.0	5.1	2.9
TRAVERS 013-21W4								
BOW ISLAND A	131.0	<0.01		1.1		1.1	1.1	
TROCHU 033-22W4								
MANNVILLE K	57.0	0.10		5.7		5.7		5.7
BASAL QUARTZ A	922.0	0.05		46.1		46.1	29.1	17.0
BASAL QUARTZ B	762.0	0.03		22.9		22.9	7.8	15.1
BASAL QUARTZ C	97.4	0.10		9.7		9.7	3.1	6.6
TROUT 090-03W5								
KEG RIVER A	1 890.0	0.17		320.0		320.0	163.9	156.1
KEG RIVER C	42.9	0.35		15.0		15.0	7.3	7.7
KEG RIVER D	70.7	<0.01		0.4		0.4	0.4	
KEG RIVER E	103.0	0.10		10.3		10.3	1.4	8.9
KEG RIVER F	80.8	<0.01		0.1		0.1		0.1
KEG RIVER G	144.0	<0.01		0.4		0.4	0.4	
KEG RIVER H	132.0	<0.01		0.1		0.1	0.1	
KEG RIVER J	138.0	0.30		41.4		41.4	9.0	32.4
KEG RIVER K	566.0	0.35		198.0		198.0	46.7	151.3
KEG RIVER N	2 019.0	0.25		505.0		505.0	93.7	411.3
KEG RIVER O	217.0	0.30		65.1		65.1	4.0	61.1
KEG RIVER P	573.0	0.30		172.0		172.0	21.5	150.5
KEG RIVER Q	552.0	0.30		166.0		166.0	21.1	144.9
KEG RIVER R	185.0	0.30		55.5		55.5	3.5	52.0
KEG RIVER S	92.7	0.20		18.5		18.5	4.4	14.1
KEG RIVER T	139.0	0.30		41.7		41.7	0.6	41.1
KEG RIVER U	245.0	0.25		61.3		61.3	1.3	60.0
KEG RIVER V	59.3	0.25		17.3		17.3	2.2	15.1
KEG RIVER W	228.0	0.25		57.0		57.0	11.5	45.5
KEG RIVER X	71.2	0.25		17.8		17.8	0.1	17.7
KEG RIVER	1 523.0	0.35		533.0		533.0	114.1	418.9
GRANITE WASH A								
KEG RIVER	1 470.0	0.35		515.0		515.0	162.2	352.8
GRANITE WASH B								
TURIN 010-18W4								
UPPER MANNVILLE B	386.0	0.10		38.6		38.6	14.6	24.0
UPPER MANNVILLE H	2 400.0	0.25	0.10	600.0	234.0	840.0	343.6	496.4
WATER FLOOD								
UPPER MANNVILLE I	56.2	0.10		5.6		5.6	0.6	5.0
UPPER MANNVILLE L	51.5	0.10		5.2		5.2	3.6	1.6
LOWER MANNVILLE B	780.0	0.01		7.8		7.8	2.9	4.9
LOWER MANNVILLE G	73.1	<0.05		3.1		3.1	3.1	
LOWER MANNVILLE H	731.0	0.02		14.6		14.6	6.2	8.4
LOWER MANNVILLE O	92.6	0.05		4.3		4.3	0.7	3.6
LOWER MANNVILLE V	483.0	0.10		48.3		48.3	32.3	16.0
LOWER MANNVILLE W	246.0	0.10		24.6		24.6	12.3	12.3
LOWER MANNVILLE CC	799.0	0.10		79.9		79.9	36.0	43.9
LOWER MANNVILLE DD	224.0	0.10		22.4		22.4	17.7	4.7
LOWER MANNVILLE HH	89.0	0.10		8.9		8.9	1.4	7.5
LOWER MANNVILLE II	3 310.0	0.15		497.0		497.0	113.3	383.7
LOWER MANNVILLE JJ	77.1	0.15		11.6		11.6	9.6	2.0
LOWER MANNVILLE KK	70.2	<0.01		0.2		0.2	0.2	
LOWER MANNVILLE LL	348.0	0.10		34.8		34.8	10.3	24.5
LOWER MANNVILLE MM	75.5	0.20		15.1		15.1	11.0	4.1
LOWER MANNVILLE OO	48.4	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE PP	57.4	0.10		5.7		5.7	3.6	2.1
LOWER MANNVILLE QQ	257.0	0.10		25.7		25.7	0.7	25.0
LOWER MANNVILLE RR	57.0	0.15		8.6		8.6	5.0	3.6
LOWER MANNVILLE SS	86.5	<0.01		0.7		0.7	0.7	
LOWER MANNVILLE UU	184.0	0.10		18.4		18.4	12.7	5.7
LOWER MANNVILLE WW	334.0	0.05		16.7		16.7	5.0	11.7

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
48	6.17	0.190	0.20	0.83	60	950	51		1 430.9	1987	88 04
64	5.00	0.090	0.40	0.87	100	885	50	15 842	1 619.3	1985	86 01 - ABAND 87 05
16	1.69	0.200	0.38	0.85	54	950	52	15 981	1 656.7	1987	88 07
64	10.00	0.130	0.40	0.84	70	844	47	1 078	1 572.9	1984	84 11
64	6.16	0.120	0.30	0.80	74	887	82	14 780	1 880.3	1977	85 12 - GPP
64	1.80	0.160	0.20	0.89	70	882	32	7 503	1 057.3	1977	87 12 - ABAND 88 10
64	1.50	0.140	0.47	0.80	79	877	56		1 513.1	1988	89 06
64	15.41	0.200	0.45	0.85	60	873	52	8 833	1 479.4	1970	78 12 - GPP
128	6.83	0.180	0.43	0.85	52	873	49	8 786	1 520.0	1982	85 12
64	1.70	0.145	0.29	0.87	47	732	62	9 716	1 510.9	1988	88 08
1 377	2.54	0.088	0.34	0.93	23	835	39	6 922	1 358.8	1984	88 06
64	2.00	0.060	0.40	0.93	38	834	39	13 840	1 463.0	1985	86 07
64	3.04	0.071	0.45	0.93	38	827	39	13 784	1 443.6	1985	89 12 - SUSP 87 05
64	3.00	0.090	0.36	0.93	38	833	39	13 819	1 479.6	1985	87 12
64	2.42	0.092	0.39	0.93	23	832	39	12 865	1 291.8	1986	89 12 - SUSP 87 03
64	4.00	0.090	0.33	0.93	23	847	39	14 035	1 470.2	1986	89 12 - SUSP 86 10
64	3.10	0.115	0.38	0.93	23	843	39	13 593	1 426.9	1985	88 12 - SUSP 86 03
64	5.00	0.066	0.30	0.93	23	835	39	13 901	1 485.4	1987	89 06
128	7.05	0.095	0.29	0.93	23	830	39	13 859	1 431.5	1987	87 09
384	8.78	0.087	0.26	0.93	23	835	39	13 881	1 453.0	1987	88 12
64	8.26	0.079	0.44	0.93	23	842	39	13 868	1 450.9	1987	88 01
128	7.87	0.085	0.28	0.93	23	830	39	14 173	1 475.8	1987	89 05
128	6.60	0.089	0.21	0.93	23	855	39		1 452.0	1987	89 08
64	4.50	0.110	0.35	0.93	23	830	39	14 247	1 470.7	1987	88 04
64	3.95	0.068	0.42	0.93	23	41	39	14 018	1 455.0	1987	88 05
64	4.50	0.081	0.36	0.93	23	823	39	13 932	1 447.4	1987	88 06
64	6.30	0.096	0.32	0.93	23	835	39	13 890	1 457.7	1987	88 06
64	3.60	0.049	0.34	0.93	23	823	39	13 108	1 488.2	1987	88 07
64	8.40	0.060	0.24	0.93	23	823	39	13 627	1 458.4	1987	88 07
64	4.60	0.065	0.60	0.93	23	840	39	13 172	1 423.7	1986	86 07
256	14.00	0.070	0.34	0.92	23	831	39	14 687	1 506.5	1987	88 09
515	5.93	0.075	0.31	0.93	23	834	39	13 724	1 461.4	1987	88 10
128	2.71	0.190	0.31	0.85	63	904	31	11 360	1 080.4	1973	89 08 - GPP
400	5.36	0.200	0.35	0.86	68	869	31	11 221	1 013.0	1980	88 04
32	1.80	0.180	0.37	0.86	70	869	31	10 467	999.1	1983	82 12 - GPP
64	0.90	0.160	0.35	0.86	68	831	31	10 768	1 023.0	1983	83 04
387	1.80	0.190	0.32	0.85	62	881	36	11 480	1 062.2	1961	83 12
64	1.52	0.160	0.45	0.85	33	876	66	11 620	1 068.9	1961	82 12 - SUSP 76 09
192	3.15	0.210	0.33	0.86	85	981	38	11 270	1 053.4	1974	89 11
64	2.16	0.120	0.35	0.86	59	898	34	11 300	1 047.0	1976	79 02
256	1.98	0.160	0.30	0.85	110	880	37	11 681	1 100.8	1980	83 12 - GPP
64	3.30	0.190	0.28	0.85	56	874	31	11 464	1 096.8	1979	88 12
456	1.32	0.218	0.30	0.87	60	871	31	11 186	1 014.8	1980	85 07 - GPP
121	1.50	0.200	0.30	0.88	45	866	49	11 175	1 015.0	1982	85 12 - GPP
64	1.50	0.180	0.40	0.86	62	887	32	11 321	1 052.2	1974	83 06
917	3.18	0.200	0.30	0.81	87	887	35	11 394	1 060.3	1973	87 02
64	1.00	0.200	0.30	0.86	62	887	32	11 249	1 102.5	1983	86 12
64	1.70	0.150	0.50	0.86	62	887	32	10 391	1 092.2	1983	89 12 - SUSP 87 05
64	5.40	0.180	0.31	0.81	86	817	35	11 508	1 073.2	1983	84 07
128	0.70	0.140	0.30	0.86	62	887	32	11 588	1 089.2	1984	87 12 - GPP
32	2.00	0.120	0.30	0.90	38	892	32	11 076	1 005.7	1984	84 11 - ABAND 87 05
16	2.00	0.240	0.17	0.90	38	892	32	11 018	999.0	1984	84 11
64	2.50	0.220	0.15	0.86	62	887	32	11 202	1 090.8	1985	85 06
64	0.92	0.150	0.25	0.86	62	887	32	9 896	1 010.3	1984	87 12
32	2.00	0.190	0.21	0.90	38	892	32	11 058	1 006.0	1985	85 08 - ABAND 86 03
64	2.20	0.210	0.23	0.81	86	888	35	10 975	1 105.3	1985	85 09 - GPP
128	2.20	0.190	0.23	0.81	86	817	32	11 194	1 091.9	1985	89 05 - GPP

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
TURIN 010-18W4 (CONTINUED)								
LOWER MANNVILLE EE, FF & GG	667.0	0.15		100.0		100.0	71.2	28.8
LOWER MANNVILLE AAA	133.0	0.10		13.3		13.3	12.1	1.2
LOWER MANNVILLE BBB	840.0	0.15		126.0		126.0	33.6	92.4
LOWER MANNVILLE CCC	102.0	0.10		10.2		10.2	0.2	10.0
LOWER MANNVILLE DDD	67.7	0.10		6.8		6.8	2.6	4.2
LOWER MANNVILLE FFF	198.0	0.05		9.9		9.9	2.3	7.6
LOWER MANNVILLE GGG	165.0	0.05		8.3		8.3	5.8	2.5
LOWER MANNVILLE KKK	42.3	0.10		4.2		4.2	3.1	1.1
LOWER MANNVILLE LLL	178.0	0.10		17.8		17.8	0.8	17.0
LOWER MANNVILLE MMM	53.1	0.10		5.3		5.3	0.8	4.5
LOWER MANNVILLE NNN	418.0	0.10		41.8		41.8	5.1	36.7
LOWER MANNVILLE OOO	239.0	0.10		23.9		23.9	1.7	22.2
LOWER MANNVILLE SSS	14.2	0.15		2.1		2.1		2.1
LIVINGSTONE A	367.0	0.15		55.1		55.1	10.1	45.0
TURNER VALLEY 020-03W5								
CARDIUM A	266.0	0.05		13.3		13.3	0.7	12.6
BLAIRMORE C	90.3	<0.02		1.8		1.8	1.8	
BLAIRMORE A & B	815.0	<0.01		5.3		5.3	5.3	
RUNDLE WATER FLOOD	159 000.0	<0.13	0.02	19 220.0	3 180.0	22 400.0	22 310.5	89.5
RUNDLE B	355.0	0.03		10.7		10.7	2.8	7.9
SHALLOW	715.0	0.12		85.8		85.8	64.4	21.4
TWINING 031-24W4								
UPPER MANNVILLE B	143.0	<0.01		1.0		1.0	1.0	
UPPER MANNVILLE H	1 000.0	0.20		200.0		200.0	68.3	131.7
GLAUCONITIC A	101.0	0.10		10.1		10.1	1.3	8.8
GLAUCONITIC B	75.4	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE B WATER FLOOD	1 810.0	0.05	0.15	90.0	272.0	362.0	292.5	69.5
LOWER MANNVILLE C	249.0	0.10		24.9		24.9	6.9	18.0
LOWER MANNVILLE F	100.0	0.11		11.0		11.0	9.7	1.3
LOWER MANNVILLE G	236.0	0.10		23.6		23.6	19.6	4.0
LOWER MANNVILLE H	194.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE J	295.0	0.10		29.5		29.5	21.2	8.3
LOWER MANNVILLE M	95.9	0.03		2.9		2.9	2.8	0.1
LOWER MANNVILLE N	215.0	0.10		21.5		21.5	7.9	13.6
LOWER MANNVILLE O	323.0	<0.01		0.7		0.7	0.7	
LOWER MANNVILLE P	164.0	0.20		32.8		32.8	29.3	3.5
LOWER MANNVILLE Q	209.0	<0.02		2.5		2.5	2.5	
LOWER MANNVILLE U	70.0	0.10		7.0		7.0	3.2	3.8
LOWER MANNVILLE V	40.0	0.10		4.0		4.0	1.9	2.1
LOWER MANNVILLE X	70.0	0.15		10.5		10.5	2.2	8.3
RUNDLE E	117.0	0.10		11.7		11.7	1.0	10.7
RUNDLE A & LOWER MANNVILLE A	144 800.0	0.05		7 240.0		7 240.0	4 687.8	2 552.2
UTIKUMA LAKE 081-09W5								
SLAVE POINT A	197.0	0.10		19.7		19.7	7.6	12.1
SLAVE POINT B	67.1	<0.02		1.0		1.0	1.0	
SLAVE POINT C	128.0	0.05		6.4		6.4	2.4	4.0
SLAVE POINT D	184.0	0.05		9.2		9.2	3.3	5.9
SLAVE POINT E	106.0	0.25		26.5		26.5	5.2	21.3
SLAVE POINT F	105.0	<0.01		0.1		0.1	0.1	
SLAVE POINT G	111.0	0.25		27.8		27.8	0.9	26.9
SLAVE POINT H	214.0	0.25		53.5		53.5	17.5	36.0
SLAVE POINT I	73.6	0.20		14.7		14.7	5.0	9.7
GILWOOD D TOTAL	838.0			186.0	37.0	223.0	110.4	112.6
PRIMARY AREA	438.0	0.15		65.7		65.7		
WATER FLOOD AREA	400.0	0.30	0.10	120.0	37.0	157.0		
GILWOOD E	84.3	0.20		16.9		16.9	0.6	16.3
KEG RIVER A	17 000.0	0.45		7 650.0		7 650.0	6 240.5	1 409.5
KEG RIVER H	256.0	0.35		89.6		89.6	62.7	26.9
KEG RIVER I	824.0	0.35		288.0		288.0	214.4	73.6
KEG RIVER K	620.0	0.35		217.0		217.0	166.2	50.8
KEG RIVER M	1 520.0	0.25		380.0		380.0	205.2	174.8
KEG RIVER N	3 330.0	0.45		1 500.0		1 500.0	1 065.5	434.5
KEG RIVER O	440.0	0.10		44.0		44.0	18.8	25.2
KEG RIVER P	296.0	0.05		14.8		14.8	12.1	2.7

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
128	3.63	0.190	0.16	0.90	68	889	30	11 036	1 015.0	1982	88 08 - GPP
64	1.96	0.190	0.38	0.90	38	892	32	11 125	1 067.7	1982	86 04
369	3.08	0.160	0.43	0.81	86	890	35	11 093	1 074.8	1983	88 12
64	1.30	0.190	0.28	0.90	38	892	37	11 752	1 013.2	1985	86 08 - SUSP 88 10
64	1.20	0.160	0.32	0.81	86	890	34	11 296	1 098.4	1985	86 08 - GPP
128	2.06	0.160	0.42	0.81	86	890	35	11 701	1 016.4	1986	89 04
64	2.10	0.220	0.31	0.81	87	887	35	11 478	1 060.3	1983	87 02 - GPP
64	0.80	0.170	0.40	0.81	86	890	35		978.8	1988	88 10
64	2.00	0.200	0.27	0.95	17	880	29		1 073.0	1988	88 10
16	3.00	0.180	0.36	0.96	14	945	33	10 735	989.8	1988	88 10
163	2.99	0.190	0.45	0.82	84	887	32	10 463	1 013.6	1988	89 08
64	3.50	0.200	0.35	0.82	84	887	32		1 002.8	1988	89 03
16	1.00	0.180	0.40	0.82	84	887	32		993.5	1988	89 08
128	5.70	0.178	0.34	0.85	63	887	42	11 230	1 080.9	1988	88 04
64	6.40	0.090	0.15	0.85	50	808	77		2 094.1	1988	89 06
65	2.44	0.110	0.20	0.65	117	784	56	12 800	1 545.3	1976	82 12 - SUSP 85 07
65	16.76	0.117	0.12	0.73	83	806	52	5 420	1 363.4	1975	88 12 - SUSP 86 02
6 763	47.55	0.082	0.10	0.67	148	825	60	19 130	2 557.0	1936	89 12 - GPP
64	28.50	0.044	0.34	0.67	146	824	66	26 897	3 103.9	1981	85 12 - GPP
							41		1 460.0	1910	68 07 - GPP
64	2.46	0.170	0.35	0.82	80	839	36	10 300	1 577.0	1975	77 05 - ABAND 77 05
112	8.05	0.180	0.23	0.80	51	887	42	10 179	1 601.8	1979	88 11
64	2.50	0.150	0.50	0.84	50	895	49	10 953	1 658.8	1981	82 05 - GPP
64	1.80	0.140	0.45	0.85	54	895	41	10 610	1 620.0	1973	82 08 - SUSP 82 08
1 376	1.67	0.137	0.28	0.80	79	876	52	11 720	1 581.6	1960	87 07 - GPP
65	3.35	0.180	0.22	0.82	53	887	59	10 000	1 586.8	1970	77 11 - GPP
125	1.03	0.150	0.35	0.80	85	869	57	10 980	1 630.6	1977	84 02 - GPP
64	4.00	0.150	0.25	0.82	78	886	53	11 530	1 597.5	1980	80 09
64	2.40	0.220	0.30	0.82	78	875	50	11 157	1 626.7	1973	83 12 - SUSP 83 05
128	3.11	0.140	0.34	0.80	80	873	50	10 644	1 532.6	1965	85 12
64	1.53	0.170	0.28	0.80	79	876	52	11 707	1 581.6	1977	87 07 - GPP
64	2.80	0.200	0.25	0.80	74	883	50	9 623	1 581.3	1980	81 08 - GPP
64	5.00	0.180	0.30	0.80	51	887	42	17 804	1 601.8	1979	88 11 - SUSP 86 01
64	2.15	0.200	0.30	0.85	66	865	61	9 616	1 513.0	1961	89 11
64	5.50	0.120	0.43	0.87	47	863	62	9 634	1 521.2	1983	89 12 - SUSP 87 07
40	1.92	0.140	0.25	0.87	74	875	50	9 976	1 619.8	1987	89 10
32	1.38	0.150	0.27	0.83	74	875	50	11 231	1 607.5	1988	89 10
30	2.61	0.130	0.21	0.87	47	876	62		1 585.2	1988	89 12
64	6.30	0.051	0.30	0.81	78	868	61	11 658	1 731.3	1988	88 08
31 053	12.56	0.063	0.29	0.83	66	876	61	11 410	1 650.5	1952	87 07 - GPP
64	6.50	0.080	0.35	0.91	28	843	49	12 498	1 639.0	1982	86 12
64	2.40	0.080	0.40	0.91	27	843	50	14 259	1 632.6	1983	89 12 - ABAND 88 09
64	6.10	0.060	0.40	0.91	28	843	48	9 347	1 631.9	1983	86 12
64	7.60	0.064	0.35	0.91	28	843	49	15 131	1 635.9	1983	86 12
64	4.00	0.070	0.35	0.91	27	840	51	16 517	1 646.6	1984	84 10
64	4.50	0.080	0.50	0.91	27	848	51	16 916	1 672.9	1984	89 12 - SUSP 84 08
64	4.00	0.070	0.32	0.91	27	848	51	16 590	1 672.9	1984	84 11 - SUSP 88 06
64	9.30	0.060	0.31	0.87	46	840	43	16 142	1 646.6	1984	86 03
64	4.20	0.050	0.34	0.83	67	837	43	15 732	1 642.8	1983	84 11
576					71	819	49	17 530	1 726.7	1966	86 03
320	1.89	0.130	0.31	0.83							
256	2.73	0.106	0.35	0.83							
64	1.24	0.160	0.20	0.83	62	830	48	13 967	1 692.9	1977	89 12 - SUSP 88 08
4 207	3.60	0.186	0.29	0.85	65	820	49	18 270	1 727.4	1963	85 10
84	2.70	0.190	0.30	0.85	65	825	49	15 510	1 755.3	1977	81 11
128	6.13	0.190	0.35	0.85	65	820	49	14 982	1 761.7	1977	81 11
139	4.25	0.180	0.30	0.85	65	839	52	15 630	1 760.9	1977	81 11
448	3.14	0.187	0.32	0.85	65	825	52	11 580	1 726.6	1973	86 10
640	4.96	0.190	0.35	0.85	65	820	49	11 584	1 737.7	1976	86 12
128	3.50	0.175	0.34	0.85	65	810	49	15 620	1 754.8	1979	85 12 - GPP
64	5.29	0.145	0.29	0.85	65	824	48	16 737	1 729.9	1979	86 12

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
UTIKUMA LAKE 081-09W5 (CONTINUED)								
KEG RIVER R	200.0	0.35		70.0		70.0	39.7	30.3
KEG RIVER S	365.0	0.35		128.0		128.0	58.0	70.0
KEG RIVER T	459.0	0.25		115.0		115.0	45.2	69.8
KEG RIVER U	2 350.0	0.25		588.0		588.0	164.0	424.0
KEG RIVER V	222.0	0.25		55.5		55.5	26.7	28.8
KEG RIVER W	58.7	0.30		17.6		17.6	12.5	5.1
KEG RIVER Y	250.0	0.25		62.5		62.5	41.5	21.0
KEG RIVER Y	149.0	0.30		44.7		44.7	14.4	30.3
KEG RIVER Z	274.0	0.30		82.2		82.2	39.9	42.3
KEG RIVER AA	116.0	0.10		11.6		11.6	7.1	4.5
KEG RIVER BB	318.0	0.25		79.5		79.5	43.9	35.6
KEG RIVER CC	157.0	0.25		39.3		39.3	14.7	24.6
KEG RIVER DD	342.0	0.25		85.6		85.6		85.6
KEG RIVER EE	670.0	0.30		201.0		201.0	49.8	151.2
KEG RIVER GG	39.5	<0.01		0.1		0.1	0.1	
KEG RIVER HH	67.9	<0.03		1.4		1.4	1.4	
KEG RIVER II	180.0	0.35		63.0		63.0	5.4	57.6
KEG RIVER JJ	262.0	0.30		78.6		78.6	3.3	75.3
KEG RIVER KK	190.0	0.25		47.5		47.5	8.0	39.5
KEG RIVER MM	426.0	0.30		128.0		128.0	47.7	80.3
VALHALLA 075-10W6								
DOE CREEK I TOTAL	31 260.0			2 813.0	3 187.0	6 000.0	1 520.8	4 479.2
PRIMARY AREA	18 110.0	0.09		1 630.0		1 630.0		
WATER FLOOD AREA	13 150.0	0.09	0.25	1 183.0	3 187.0	4 370.0		
DOE CREEK K	336.0	0.10		33.6		33.6	13.2	20.4
DOE CREEK L	924.0	0.10		92.4		92.4	14.1	78.3
DOE CREEK M	681.0	0.10		68.1		68.1	10.2	57.9
DOE CREEK N	64.4	0.10		6.4		6.4	4.9	1.5
DOE CREEK O	144.0	0.10		14.4		14.4	1.0	13.4
DOE CREEK Q	46.0	0.10		4.6		4.6		4.6
GETHING C	68.6	<0.02		0.9		0.9	0.9	
CHARLIE LAKE C	44.7	0.20		8.9		8.9	5.6	3.3
CHARLIE LAKE D	103.0	0.10		10.3		10.3	4.3	6.0
CHARLIE LAKE H	3 076.0	0.15		461.0		461.0	86.0	375.0
CHARLIE LAKE I	322.0	0.10		32.2		32.2	9.5	22.7
CHARLIE LAKE J	138.0	0.15		20.7		20.7	6.3	14.4
CHARLIE LAKE K	94.5	0.20		18.9		18.9	12.0	6.9
CHARLIE LAKE L	120.0	0.15		18.0		18.0	4.8	13.2
CHARLIE LAKE M	326.0	0.10		32.6		32.6	4.9	27.7
CHARLIE LAKE N	361.0	0.20		72.2		72.2	5.9	66.3
CHARLIE LAKE O	99.6	0.15		14.9		14.9	2.2	12.7
BOUNDARY B	2 170.0	0.10		217.0		217.0	112.5	104.5
BOUNDARY D	455.0	0.15		68.3		68.3	48.9	19.4
BOUNDARY F	83.5	<0.02		1.2		1.2	1.2	
BOUNDARY H	377.0	0.10		37.7		37.7	15.5	22.2
BOUNDARY I	415.0	0.15		62.3		62.3	36.9	25.4
BOUNDARY J	138.0	0.15		20.7		20.7	7.3	13.4
BOUNDARY K	34.5	0.15		5.2		5.2	0.4	4.8
BOUNDARY A & CHARLIE LAKE A	167.0	0.15		25.0		25.0	17.0	8.0
HALFWAY C	2 300.0	0.20		460.0		460.0	199.1	260.9
DOIG A	87.0	0.01		8.7		8.7	5.6	3.1
DOIG B	1 014.0	0.10		101.0		101.0	17.9	83.1
VAUXHALL 012-17W4								
LOWER MANNVILLE A	57.8	<0.01		0.1		0.1	0.1	
VEGA 061-03W5								
VIKING B	138.0	<0.01		0.2		0.2	0.2	
VIKING C	109.0	<0.01		0.5		0.5	0.5	
VERGER 022-15W4								
UPPER MANNVILLE F	182.0	0.10		18.2		18.2	5.6	12.6
VIRGINIA HILLS 065-13W5								
GETHING A	132.0	0.15		19.8		19.8	9.5	10.3
BELLOY A TOTAL	10 200.0			2 290.0	1 520.0	3 810.0	2 801.3	1 008.7
PRIMARY AREA	122.0	0.10		12.2		12.2		
WATER FLOOD AREA	10 100.0	<0.23	0.15	2 280.0	1 520.0	3 800.0		

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
81	2.20	0.186	0.29	0.85	65	825	43	13 957	1 740.3	1979	89 12
128	2.74	0.180	0.32	0.85	59	820	45	15 062	1 715.2	1980	82 05
64	7.09	0.170	0.30	0.85	65	836	49	13 732	1 739.2	1981	81 09
320	7.16	0.180	0.33	0.85	58	827	50	15 910	1 740.0	1980	83 03
64	3.20	0.180	0.29	0.85	65	825	49	16 396	1 742.6	1979	79 10
64	0.76	0.200	0.29	0.85	65	824	60	15 323	1 731.8	1982	83 01
64	4.50	0.170	0.40	0.85	65	822	49	15 450	1 736.7	1982	83 04
64	2.80	0.140	0.30	0.85	60	845	49	14 234	1 731.8	1983	83 05
64	4.00	0.180	0.30	0.85	55	823	50	15 011	1 731.0	1983	83 08
64	1.60	0.190	0.30	0.85	57	820	44	12 633	1 746.7	1983	86 12
64	4.30	0.200	0.32	0.85	50	843	61	14 854	1 739.5	1983	83 11
64	2.00	0.200	0.28	0.85	55	843	50	14 443	1 736.0	1983	84 02
64	4.32	0.230	0.36	0.84	78	40	50	14 064	1 731.9	1987	89 10
192	3.21	0.193	0.33	0.84	67	830	41	17 022	1 732.4	1978	87 04
64	1.20	0.110	0.45	0.85	65	844	52	12 612	1 744.2	1984	85 05 - ABAND 85 11
64	3.20	0.060	0.35	0.85	55	825	45	15 253	1 749.0	1980	83 09 - ABAND 87 11
64	3.30	0.153	0.30	0.80	78	824	50	17 444.5	1 744.5	1988	88 08
64	4.40	0.168	0.34	0.84	65	822	49	11 338	791.5	1988	88 08
64	3.90	0.180	0.20	0.80	78	845	50	13 101	1 730.8	1987	88 11
128	2.84	0.208	0.33	0.84	78	824	50	17 27.2	1 727.2	1983	89 10
8 952					19	858	29	3 807	702.2	1977	89 01
6 044	2.84	0.220	0.49	0.94							
2 908	4.18	0.230	0.50	0.94							
128	2.15	0.240	0.44	0.91	22	845	28	4 000	722.0	1984	87 03
256	3.26	0.200	0.37	0.88	49	840	24	5 130	711.0	1984	88 03
256	2.15	0.200	0.35	0.95	18	834	24	4 645	643.5	1985	88 03
64	1.00	0.176	0.35	0.88	43	840	27	4 681	553.5	1983	87 12
64	2.10	0.200	0.43	0.94	22	840	29	3 255	717.5	1987	88 04
64	0.90	0.170	0.50	0.94	22	841	29		536.6	1988	89 12
64	2.00	0.130	0.45	0.75	100	847	60	14 100	1 642.8	1983	86 02 - ABAND 88 01
80	0.80	0.120	0.18	0.71	125	836	58	18 958	2 004.1	1984	87 12
64	2.00	0.120	0.14	0.78	80	817	64	18 995	1 958.2	1984	84 12
1 420	3.16	0.106	0.16	0.77	100	800	73	17 571	1 980.4	1984	88 08
64	3.70	0.200	0.15	0.80	70	836	75	17 990	2 009.2	1982	86 02
64	2.00	0.180	0.20	0.75	100	840	68	18 924	2 103.8	1986	86 10
80	1.60	0.120	0.18	0.75	100	865	60	18 186	1 912.8	1984	87 12
64	3.50	0.093	0.28	0.80	100	829	73	18 921	1 950.5	1986	87 02
64	4.40	0.165	0.10	0.78	145	839	73	19 244	2 020.2	1986	86 12
64	5.00	0.163	0.10	0.77	100	829	73		2 011.2	1988	89 01
64	1.30	0.170	0.12	0.80	165	832	69		1 912.9	1988	89 05
1 070	1.81	0.180	0.17	0.75	164	32	73	19 723	2 019.2	1973	87 12
320	2.08	0.110	0.15	0.73	150	816	80	18 518	1 978.2	1984	89 03
64	2.30	0.090	0.10	0.70	125	820	73	16 979	1 976.0	1983	89 12 - SUSP 86 10
320	1.13	0.175	0.11	0.67	164	812	73	19 050	1 981.5	1985	89 12
384	1.48	0.125	0.13	0.67	164	840	73	19 912	1 913.7	1986	87 05
128	2.24	0.112	0.36	0.67	164	820	73	18 234	2 081.2	1979	88 12
64	1.00	0.120	0.33	0.67	164	12	73	17 440	2 152.5	1985	87 08
116	2.81	0.090	0.22	0.73	149	835	72	17 570	1 978.8	1981	86 12
750	5.00	0.140	0.26	0.59	145	785	73	19 632	1 953.7	1980	87 07
64	24.80	0.106	0.25	0.69	120	815	73	19 664	2 006.0	1983	87 12
192	19.46	0.078	0.13	0.40	416	816	73	21 880	2 021.0	1984	88 04
64	1.00	0.150	0.30	0.86	64	895	30	11 069	1 027.9	1980	83 01 - SUSP 83 08
64	2.00	0.210	0.41	0.87	57	849	32	5 150	833.0	1980	85 12 - SUSP 84 04
64	1.50	0.190	0.31	0.87	58	846	30	5 045	810.0	1980	82 03 - SUSP 84 04
64	4.20	0.140	0.45	0.88	47	861	35	9 373	1 073.2	1982	82 12
64	2.00	0.170	0.23	0.79	100	852	64	12 322	1 691.3	1983	84 01
1 948								13 434	1 850.4	1961	82 09
64	3.39	0.100	0.33	0.84							
1 884	5.32	0.174	0.31	0.84							

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
VIRGINIA HILLS								
065-13W5 (CONTINUED)								
BELLOV B	67.0	<0.01		0.1		0.1	0.1	
BEAVERHILL LAKE	76 240.0			17 410.0	8 000.0	25 410.0	21 621.6	3 788.4
TOTAL								
PRIMARY AREA	2 639.0	0.23		607.0		607.0		
WATER FLOOD AREA	73 600.0	<0.23	0.11	16 800.0	8 000.0	24 800.0		
BEAVERHILL LAKE B	30.4	<0.01		0.1		0.1		0.1
BEAVERHILL LAKE C	106.0	0.15		15.9		15.9	2.6	13.3
BEAVERHILL LAKE D	119.0	0.15		17.9		17.9	0.9	17.0
VIRGO 115-06W6								
SULPHUR POINT E	35.0	<0.02		0.6		0.6	0.6	
SULPHUR POINT A & KEG RIVER MM	249.0	0.45		112.0		112.0	101.5	10.5
MUSKEG A	334.0	0.20		66.7		66.7	61.3	5.4
MUSKEG B	118.0	0.30		35.4		35.4	22.2	13.2
MUSKEG C	160.0	<0.21		33.1		33.1	33.1	
MUSKEG E	59.6	<0.20		11.6		11.6	11.6	
MUSKEG G	191.0	0.25		47.7		47.7	32.4	15.3
MUSKEG I	207.0	0.25		51.8		51.8	41.4	10.4
MUSKEG J	175.0	0.20		35.0		35.0	20.9	14.1
MUSKEG K	440.0	<0.01		0.9		0.9	0.9	
MUSKEG L	159.0	<0.08		11.8		11.8	11.8	
MUSKEG M	173.0	<0.03		4.1		4.1	4.1	
MUSKEG O	462.0	0.15		69.3		69.3	26.8	42.5
MUSKEG Q	943.0	0.05		47.2		47.2	4.3	42.9
MUSKEG R	601.0	<0.01		5.0		5.0	5.0	
MUSKEG S	144.0	<0.01		0.5		0.5	0.5	
MUSKEG T	139.0	<0.01		0.5		0.5	0.5	
MUSKEG U	174.0	<0.01		1.3		1.3	1.3	
MUSKEG D & KEG RIVER L	429.0	0.20		85.8		85.8	76.5	9.3
MUSKEG P & KEG RIVER R3R	185.0	<0.01		0.9		0.9	0.9	
KEG RIVER A	222.0	0.30		66.7		66.7	45.0	21.7
KEG RIVER B	397.0	0.32	0.09	127.0	35.7	163.0	124.3	38.7
WATER FLOOD								
KEG RIVER C	139.0	0.40		55.8		55.8	50.9	4.9
KEG RIVER D	821.0	0.15		123.0		123.0	91.0	32.0
KEG RIVER E	620.0	0.35		217.0	ERSD	217.0	206.4	10.6
KEG RIVER F	159.0	0.20		31.8		31.8	23.6	8.2
KEG RIVER G	461.0	0.20		92.2		92.2	74.0	18.2
KEG RIVER H	636.0	0.26		165.0		165.0	132.9	32.1
KEG RIVER I	359.0	0.35	0.13	126.0	46.7	173.0	124.1	48.9
WATER FLOOD								
KEG RIVER J	159.0	0.38		60.4		60.4	58.0	2.4
KEG RIVER K	221.0	0.52		115.0		115.0	102.2	12.8
KEG RIVER M	130.0	0.25		32.5		32.5	29.2	3.3
KEG RIVER N	159.0	0.35		55.7		55.7	40.8	14.9
KEG RIVER O	159.0	0.38	0.06	60.4	9.5	70.0	41.4	28.6
WATER FLOOD								
KEG RIVER P	350.0	0.10	0.26	35.0	91.0	126.0	34.4	91.6
WATER FLOOD								
KEG RIVER Q	477.0	0.40		191.0		191.0	58.1	132.9
KEG RIVER R	331.0	0.36	0.05	136.0	15.9	136.0	135.0	1.0
WATER FLOOD								
KEG RIVER S	270.0	0.30		81.0		81.0	72.2	8.8
KEG RIVER T	524.0	<0.11		53.4		53.4	53.4	
KEG RIVER U	381.0	<0.11		39.6		39.6	39.6	
KEG RIVER V	195.0	0.35		68.3		68.3	55.5	12.8
KEG RIVER W	715.0	0.30		215.0		215.0	167.0	48.0
KEG RIVER X	254.0	<0.11		26.3		26.3	26.3	
KEG RIVER Y	250.0	0.40		100.0		100.0	94.0	6.0
KEG RIVER Z	354.0	0.39	0.09	138.0	31.9	170.0	158.5	11.5
WATER FLOOD								
KEG RIVER AA	572.0	0.18		103.0		103.0	98.8	4.2
KEG RIVER BB	192.0	0.40		76.8		76.8	65.1	11.7
KEG RIVER CC	30.7	0.30		9.2		9.2	6.3	2.9
KEG RIVER DD	110.0	0.30	0.13	33.0	14.0	47.0	37.6	9.4
WATER FLOOD								
KEG RIVER EE	127.0	0.25		31.8		31.8	27.4	4.4
KEG RIVER FF	636.0	<0.05		30.6		30.6	30.6	

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	2.35	0.074	0.30	0.86	53	884	69	11 390	1 826.0	1978	88 12 - SUSP 82 03
13 098					88	834	102	25 510	2 830.4	1957	88 12
2 176	3.00	0.070	0.25	0.77							- GPP
10 922	12.40	0.086	0.18	0.77							- ABAND 84 07
64	1.62	0.073	0.45	0.73	97	852	99	13 438	2 752.8	1983	88 12
64	4.80	0.070	0.35	0.76	80	847	103	10 904	2 855.2	1983	86 12
64	7.81	0.052	0.40	0.76	76	837	105	24 047	2 975.0	1987	87 05
16	4.90	0.070	0.25	0.85	62	860	50	13 646	1 372.4	1977	84 05 - ABAND 89 02
9	53.00	0.070	0.17	0.87	35	865	68	14 400	1 467.9	1968	76 08 - GPP
19	20.82	0.130	0.15	0.78	85	839	74	15 170	1 515.2	1968	69 04
17	23.00	0.050	0.20	0.75	74	849	71	14 240	1 478.0	1968	87 02
8	32.63	0.080	0.11	0.86	45	865	76	14 730	1 496.0	1968	88 12 - SUSP 86 01
4	19.05	0.100	0.10	0.86	46	870	71	12 440	1 472.2	1969	80 12 - SUSP 80 09
11	26.45	0.090	0.17	0.88	39	881	67	13 860	1 475.2	1969	89 12 - SUSP 89 08
16	44.20	0.050	0.20	0.74	88	829	72	14 670	1 541.4	1970	86 12 - GPP
49	12.71	0.046	0.30	0.88	35	881	65	13 580	1 439.8	1971	82 12 - GPP
65	20.12	0.051	0.17	0.80	80	849	71	14 890	1 500.5	1971	73 02 - SUSP 72 03
13	17.98	0.089	0.11	0.86	53	870	70	11 960	1 481.6	1971	73 12 - ABAND 89 03
65	12.50	0.040	0.35	0.82	106	834	73	12 590	1 486.5	1973	83 12 - ABAND 88 12
64	19.80	0.055	0.15	0.78	89	850	71	16 930	1 505.4	1969	80 06 - GPP
64	27.90	0.080	0.25	0.88	39	882	67	13 301	1 481.0	1983	86 10 - SUSP 88 04
64	11.00	0.120	0.11	0.80	45	824	62	14 491	1 546.5	1983	85 12 - SUSP 85 04
64	5.80	0.060	0.24	0.85	54	876	58	14 358	1 461.3	1983	87 09 - ABAND 89 04
64	5.00	0.062	0.11	0.79	89	860	69	14 320	1 492.6	1985	88 12 - ABAND 85 12
64	12.30	0.042	0.38	0.85	45	852	76	15 247	1 546.0	1981	89 12 - SUSP 87 08
49	16.70	0.076	0.17	0.83	75	829	62	15 790	1 596.5	1968	79 11 - GPP
64	7.00	0.080	0.40	0.86	34	794	82	13 677	1 647.5	1981	88 12 - SUSP 82 07
10	41.03	0.080	0.15	0.76	106	825	68	15 170	1 545.0	1968	70 02 - SUSP 88 10
14	38.93	0.094	0.11	0.87	43	849	71	14 670	1 466.7	1968	86 05 - GPP
8	35.30	0.068	0.16	0.90	32	876	64	14 560	1 460.6	1968	71 03
37	31.20	0.093	0.10	0.85	48	860	73	15 000	1 497.2	1968	89 09
13	68.75	0.094	0.10	0.82	75	849	68	15 200	1 513.0	1967	85 09
5	37.80	0.130	0.08	0.69	143	876	76	15 130	1 531.0	1968	79 04
10	88.09	0.077	0.16	0.80	74	839	76	16 030	1 592.0	1968	83 12 - GPP
13	70.46	0.093	0.10	0.83	65	876	77	15 270	1 499.0	1968	85 08 - GPP
12	44.50	0.090	0.10	0.83	78	849	71	14 990	1 495.0	1968	83 12 - I.S. NO. 6
11	36.45	0.053	0.14	0.87	50	865	68	14 460	1 462.1	1968	81 10 - GPP
8	56.81	0.065	0.12	0.85	45	855	70	14 930	1 499.3	1968	88 12
9	35.00	0.070	0.18	0.72	121	815	78	15 070	1 535.9	1968	87 12
6	47.40	0.073	0.12	0.87	50	865	68	14 550	1 474.6	1968	82 12
6	52.50	0.066	0.12	0.87	43	865	61	14 400	1 467.0	1968	86 05 - GPP
8	74.75	0.081	0.14	0.84	45	860	76	14 960	1 503.6	1968	85 05
15	62.00	0.071	0.14	0.84	58	855	72	14 980	1 504.2	1968	86 07 - GPP
8	56.76	0.100	0.10	0.81	80	876	63	15 090	1 564.5	1968	88 12 - I.S. NO. 6
6	79.20	0.077	0.10	0.82	60	855	71	12 770	1 530.4	1968	82 12 - GPP
22	42.70	0.080	0.15	0.82	69	849	71	14 340	1 494.7	1968	89 12 - SUSP 87 09
19	30.75	0.100	0.11	0.75	107	829	71	15 470	1 551.7	1968	75 02 - SUSP 73 08
7	37.50	0.110	0.10	0.75	101	839	72	15 170	1 527.7	1968	83 12 - GPP
11	73.15	0.120	0.09	0.82	68	849	71	15 280	1 515.8	1968	76 05
6	66.45	0.093	0.12	0.77	96	839	72	15 370	1 538.0	1968	77 03 - SUSP 75 12
19	34.37	0.055	0.20	0.87	47	849	69	14 740	1 478.0	1968	84 12
11	52.50	0.084	0.10	0.81	75	860	64	14 780	1 489.6	1968	88 12 - I.S. NO. 6
25	47.24	0.073	0.24	0.87	45	849	72	14 860	1 486.8	1968	86 12 - GPP
10	43.30	0.060	0.16	0.88	35	855	67	14 650	1 467.6	1968	83 12 - GPP
7	27.10	0.025	0.30	0.89	30	860	68	14 450	1 447.2	1968	80 06 - GPP
9	22.89	0.074	0.13	0.83	67	849	69	14 450	1 481.0	1968	86 02 - GPP
10	21.56	0.090	0.15	0.77	101	839	71	15 310	1 529.5	1968	69 11 - GPP
34	39.51	0.070	0.11	0.76	104	820	70	15 380	1 544.7	1968	88 12 - SUSP 86 02

TABLE 2-4

FIELD POOL	1	3		5			6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES	
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL			
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	
VIRGO 115-06W6 (CONTINUED)									
KEG RIVER GG	636.0	0.09		57.2		57.2	52.6	4.6	
KEG RIVER HH	284.0	0.40		114.0		114.0	74.4	39.6	
KEG RIVER II	366.0	0.15		54.9		54.9	19.9	35.0	
KEG RIVER JJ	556.0	0.30		167.0		167.0	137.6	29.4	
KEG RIVER KK	318.0	<0.08		25.0		25.0	25.0		
KEG RIVER LL	95.3	<0.12		11.0		11.0	11.0		
KEG RIVER NN	159.0	<0.31		48.6		48.6	48.6		
KEG RIVER OO	159.0	<0.11		16.2		16.2	16.2		
KEG RIVER PP	47.7	<0.06		2.8		2.8	2.8		
KEG RIVER QO	238.0	<0.16		36.2		36.2	36.2		
KEG RIVER RR	270.0	<0.08		90.4		90.4	90.4		
KEG RIVER SS	155.0	0.30		46.6		46.6	32.2	14.4	
KEG RIVER TT	191.0	<0.13		23.1		23.1	23.1		
KEG RIVER UU	152.0	0.10		15.2		15.2	6.2	9.0	
KEG RIVER VV	560.0	0.40		224.0		224.0	178.4	45.6	
KEG RIVER WW	300.0	0.30	0.07	90.0	20.0	110.0	103.2	6.8	
WATER FLOOD									
KEG RIVER XX	578.0	<0.09		47.4		47.4	47.4		
KEG RIVER YY	200.0	<0.26		50.6		50.6	50.6		
KEG RIVER ZZ	238.0	0.35		83.3		83.3	61.0	22.3	
KEG RIVER AAA	230.0	0.35	0.13	80.5	29.9	110.0	107.4	2.6	
WATER FLOOD									
KEG RIVER BBB	445.0	<0.18		79.9		79.9	79.9		
KEG RIVER CCC TOTAL	250.0			20.0	21.3	41.3	21.0	20.3	
PRIMARY AREA	125.0	0.08		10.0		10.0			
WATER FLOOD AREA	125.0	0.08	0.17	10.0	21.3	31.3			
KEG RIVER DDD	191.0	0.07		13.4		13.4	13.4		
KEG RIVER EEE	238.0	<0.10		22.3		22.3	22.3		
KEG RIVER FFF	292.0	<0.01		0.3		0.3	0.3		
KEG RIVER GGG	440.0	0.10	0.08	44.0	36.0	80.0	78.0	2.0	
WATER FLOOD									
KEG RIVER HHH	49.6	<0.12		5.9		5.9	5.9		
KEG RIVER III	47.7	<0.05		2.1		2.1	2.1		
KEG RIVER JJJ	556.0	<0.05		24.7		24.7	24.7		
KEG RIVER KKK	238.0	0.35		83.3		83.3	77.8	5.5	
KEG RIVER LLL	207.0	0.30		62.0		62.0	45.6	16.4	
KEG RIVER MMM	95.3	0.36		34.3		34.3	33.3	1.0	
KEG RIVER NNN	207.0	0.40		82.8		82.8	68.7	14.1	
KEG RIVER OOO	200.0	<0.20	0.03	38.4	6.0	44.4	44.4		
WATER FLOOD									
KEG RIVER PPP	227.0	0.15	0.10	34.2	22.7	56.9	54.4	2.5	
WATER FLOOD									
KEG RIVER QOO	320.0	<0.16		49.0		49.0	49.0		
KEG RIVER RRR	556.0	0.10		55.6		55.6	39.2	16.4	
KEG RIVER SSS	238.0	0.05		11.9		11.9	7.5	4.4	
KEG RIVER TTT	444.0	0.28		124.0	ERSD	124.0	114.4	9.6	
KEG RIVER UUU	111.0	0.20		22.2		22.2	22.2		
KEG RIVER VVV	37.8	0.30		11.3		11.3	6.4	4.9	
KEG RIVER WWW	111.0	<0.10		10.5		10.5	10.5		
KEG RIVER XXX	267.0	0.20		53.4		53.4	44.6	8.8	
KEG RIVER YYY	175.0	<0.25		42.1		42.1	42.1		
KEG RIVER ZZZ	195.0	0.40		78.0		78.0	60.6	17.4	
KEG RIVER A2A	280.0	0.32		89.6		89.6	89.6		
KEG RIVER B2B	331.0	<0.06		17.5		17.5	17.5		
KEG RIVER C2C	397.0	<0.08		31.0		31.0	31.0		
KEG RIVER D2D	370.0	0.28		104.0	ERSD	104.0	93.4	10.6	
KEG RIVER E2E	238.0	<0.06		13.2		13.2	13.2		
KEG RIVER F2F	139.0	<0.13		17.6	ERSD	17.6	17.6		
KEG RIVER G2G	79.5	<0.01		0.7		0.7	0.7		
KEG RIVER H2H	477.0	<0.08		37.2	ERSD	37.2	37.2		
KEG RIVER I2I	280.0	0.35		98.0		98.0	75.9	22.1	
KEG RIVER J2J	56.3	0.30		16.9		16.9	6.4	10.5	
KEG RIVER K2K	636.0	0.17		108.0		108.0	101.2	6.8	
KEG RIVER L2L	253.0	<0.14		34.0		34.0	34.0		
KEG RIVER M2M	259.0	0.15		38.9		38.9	26.6	12.3	
KEG RIVER N2N	348.0	0.18		62.6		62.6	59.6	3.0	
KEG RIVER O2O	238.0	<0.08		18.8		18.8	18.8		
KEG RIVER P2P	191.0	<0.02		3.6		3.6	3.6		
KEG RIVER Q2Q	74.8	<0.03		1.9	ERSD	1.9	1.9		
KEG RIVER R2R	397.0	0.07	0.08	27.8	31.8	59.6	46.9	12.7	
WATER FLOOD									

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
51	28.56	0.069	0.14	0.73	120	829	74	15 040	1 541.7	1968	83 12 - GPP
16	22.56	0.130	0.11	0.68	158	815	79	15 450	1 570.3	1968	86 12 - SUSP 88 12
9	68.00	0.085	0.20	0.88	46	876	63	14 690	1 482.9	1968	86 12
19	50.11	0.081	0.16	0.84	53	870	69	14 740	1 475.8	1968	70 02 - GPP
17	36.82	0.080	0.15	0.73	124	834	69	15 290	1 554.2	1968	78 10 - SUSP 77 10
10	17.98	0.079	0.19	0.80	74	844	70	15 620	1 632.2	1968	89 12 - SUSP 87 03
4	47.25	0.110	0.09	0.84	56	870	62	14 580	1 476.1	1968	83 12 - SUSP 81 12
9	33.78	0.070	0.13	0.86	50	865	68	14 160	1 464.3	1968	82 12 - SUSP 84 07
6	17.25	0.067	0.20	0.85	72	844	71	13 620	1 492.9	1969	70 02 - SUSP 73 03
19	26.16	0.082	0.20	0.73	118	839	72	15 452	1 545.3	1969	78 07 - SUSP 83 09
57	39.32	0.076	0.12	0.85	43	860	69	14 820	1 481.3	1969	84 12 - SUSP 84 01
19	32.40	0.040	0.25	0.84	58	876	66	14 620	1 474.3	1969	70 06 - GPP
9	38.25	0.083	0.10	0.75	107	834	71	15 360	1 549.0	1969	77 05 - SUSP 77 02
34	18.04	0.040	0.25	0.82	69	849	71	13 570	1 484.0	1968	87 12 - GPP
20	48.40	0.081	0.15	0.84	65	860	70	14 618	1 483.8	1969	89 12
16	25.00	0.098	0.09	0.84	64	860	70	14 740	1 501.1	1969	86 02 - GPP
17	33.89	0.140	0.08	0.78	92	829	76	15 380	1 553.0	1969	77 11 - ABAND 76 11
6	52.30	0.094	0.12	0.77	91	834	76	15 130	1 547.5	1969	81 10 - SUSP 83 03
15	27.77	0.080	0.20	0.88	40	855	70	14 480	1 467.3	1969	86 12 - GPP
11	44.00	0.070	0.15	0.80	84	839	71	14 960	1 494.4	1968	83 12 - I. S. NO. 6
8	65.23	0.120	0.10	0.78	93	834	72	15 310	1 532.2	1969	82 12 - SUSP 80 07
4	34.40	0.120	0.10	0.84	47	855	71	14 406	1 504.0	1969	85 04
4	70.50	0.060	0.12	0.84							
7	44.00	0.082	0.11	0.85	50	865	68	13 220	1 469.4	1969	83 12 - SUSP 81 12
5	57.24	0.107	0.12	0.84	54	865	71	12 670	1 501.1	1969	70 10 - SUSP 72 07
65	6.40	0.100	0.15	0.83	69	849	71	13 340	1 482.5	1969	70 12 - SUSP 70 01
11	51.27	0.102	0.10	0.85	53	865	70	13 970	1 495.3	1969	86 02 - GPP
8	24.78	0.037	0.24	0.89	40	860	68	13 930	1 442.9	1969	89 12 - SUSP 86 03
8	15.54	0.064	0.24	0.82	71	839	71	13 510	1 498.4	1969	74 05 - ABAND 70 11
21	40.39	0.094	0.15	0.82	62	865	72	14 250	1 529.5	1969	79 12 - SUSP 83 08
7	47.89	0.094	0.09	0.83	67	849	71	14 600	1 504.8	1969	83 12
14	39.32	0.053	0.20	0.90	30	870	68	14 280	1 460.3	1969	70 07 - GPP
14	24.54	0.040	0.22	0.88	46	855	71	14 380	1 476.5	1969	88 12 - GPP
22	27.01	0.050	0.20	0.86	44	870	68	14 310	1 463.3	1969	87 12 - GPP
4	82.75	0.080	0.10	0.84	59	844	66	11 660	1 506.0	1969	86 02 - SUSP 79 12
11	60.96	0.047	0.14	0.84	60	855	68	13 810	1 498.1	1969	76 12 - GPP - I. S. NO. 5
18	45.80	0.072	0.13	0.62	210	820	78	15 530	1 586.2	1969	83 12 - SUSP 82 02
15	65.00	0.096	0.11	0.65	171	815	78	15 180	1 570.9	1969	87 12 - GPP
6	72.92	0.080	0.20	0.85	52	870	71	13 910	1 524.0	1969	87 12 - GPP
11	60.27	0.095	0.13	0.81	71	855	74	15 220	1 534.7	1969	87 12 - GPP
8	37.88	0.069	0.17	0.64	192	811	82	15 470	1 595.6	1969	85 12 - SUSP 82 01
5	26.52	0.044	0.21	0.82	66	876	75	13 210	1 511.5	1969	75 12
7	21.34	0.110	0.12	0.74	118	829	71	14 800	1 539.9	1969	75 12 - SUSP 75 06
16	30.80	0.075	0.15	0.85	30	865	68	14 460	1 455.1	1969	79 12 - GPP
10	40.90	0.069	0.15	0.73	123	829	72	15 240	1 540.8	1969	89 12 - SUSP 86 10
22	33.38	0.047	0.30	0.80	64	849	70	13 850	1 477.7	1969	87 12
10	43.30	0.090	0.12	0.80	84	844	76	15 100	1 534.4	1969	89 07 - GPP
20	26.49	0.090	0.23	0.89	34	870	70	13 560	1 456.6	1969	75 12 - SUSP 75 02
10	48.83	0.105	0.11	0.87	41	881	64	13 130	1 464.6	1969	80 01 - SUSP 83 09
9	76.78	0.077	0.12	0.79	77	844	73	14 730	1 531.6	1969	87 12 - GPP
12	33.89	0.079	0.15	0.86	48	870	69	11 190	1 490.8	1969	73 02 - SUSP 72 12
11	24.08	0.085	0.17	0.76	104	834	73	15 130	1 520.0	1969	70 06 - ABAND 89 02
11	28.65	0.045	0.32	0.83	62	849	71	14 500	1 497.5	1969	73 02 - SUSP 71 07
17	40.54	0.103	0.12	0.78	90	849	71	14 710	1 510.0	1969	89 12 - ABAND 89 02
17	34.70	0.070	0.22	0.87	43	860	70	14 130	1 467.6	1969	87 01
11	29.19	0.033	0.23	0.69	125	815	82	15 480	1 606.0	1969	88 12 - GPP
9	78.15	0.114	0.08	0.83	63	849	70	11 050	1 521.6	1970	82 12 - GPP
11	43.56	0.070	0.17	0.88	37	865	68	13 720	1 471.0	1970	88 12 - SUSP 86 05
23	27.22	0.061	0.20	0.86	45	834	72	13 880	1 474.6	1970	85 12 - SUSP 89 03
15	36.09	0.085	0.10	0.82	70	849	73	13 360	1 501.4	1970	86 12 - GPP
12	44.35	0.061	0.20	0.88	38	855	68	14 370	1 457.6	1970	82 12 - SUSP 84 05
13	33.83	0.075	0.20	0.75	92	829	76	14 930	1 563.6	1970	75 03 - SUSP 75 03
8	30.48	0.050	0.20	0.80	90	849	72	13 890	1 524.6	1970	88 12 - GPP - I. S. NO. 7
15	46.02	0.075	0.10	0.82	68	860	70	11 400	1 491.8	1970	75 12 - SUSP 89 02

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
VIRGO 115-06W6 (CONTINUED)								
KEG RIVER S2S	270.0	0.40		108.0		108.0	70.1	37.9
KEG RIVER T2T	203.0	<0.21		41.3		41.3	41.3	
KEG RIVER U2U	421.0	0.11		46.3		46.3	41.5	4.8
KEG RIVER V2V	101.0	<0.19		18.2		18.2	18.2	
KEG RIVER W2W	636.0	<0.08		45.0		45.0	45.0	
KEG RIVER X2X	397.0	<0.14		52.5		52.5	52.5	
KEG RIVER Y2Y	747.0	0.15		112.0		112.0	75.9	36.1
KEG RIVER Z2Z	500.0	0.25	0.15	125.0	75.0	200.0	28.8	171.2
WATER FLOOD								
KEG RIVER A3A	254.0	0.35		89.0		89.0	80.4	8.6
KEG RIVER B3B	477.0	<0.07		33.2		33.2	33.2	
KEG RIVER C3C	159.0	<0.20		30.9		30.9	30.9	
KEG RIVER D3D	111.0	0.35		38.9		38.9	29.9	9.0
KEG RIVER E3E	556.0	0.12		66.7		66.7	52.4	14.3
KEG RIVER F3F	404.0	<0.03		9.6		9.6	9.6	
KEG RIVER G3G	310.0	<0.03		6.6		6.6	6.6	
KEG RIVER H3H	96.9	0.35		33.9		33.9	16.0	17.9
KEG RIVER I3I	248.0	<0.02		3.7		3.7	3.7	
KEG RIVER J3J	397.0	0.17		67.5		67.5	57.7	9.8
KEG RIVER L3L	65.3	<0.01		0.2		0.2	0.2	
KEG RIVER N3N	353.0	0.25		88.3		88.3	29.4	58.9
KEG RIVER O3O	74.3	<0.10		6.9		6.9	6.9	
KEG RIVER P3P	384.0	<0.01		0.3		0.3	0.3	
KEG RIVER Q3Q	327.0	<0.07		20.0		20.0	20.0	
KEG RIVER S3S	91.6	<0.03		2.6		2.6	2.6	
KEG RIVER T3T	110.0	<0.03		2.3		2.3	2.3	
KEG RIVER U3U	130.0	0.40		52.0		52.0	19.2	32.8
KEG RIVER V3V	600.0	0.30		180.0		180.0	30.7	149.3
KEG RIVER W3W	115.0	<0.01		0.5		0.5	0.5	
KEG RIVER X3X	93.3	0.30		28.0		28.0	5.1	22.9
KEG RIVER Y3Y	362.0	0.15		19.7		19.7	3.9	15.8
KEG RIVER Z3Z	50.0	0.25		12.5		12.5	2.6	9.9
KEG RIVER A4A	600.0	0.30		180.0		180.0	11.3	168.7
KEG RIVER B4B	300.0	0.30		90.0		90.0	21.9	68.1
KEG RIVER C4C	187.0	0.30		56.1		56.1	21.3	34.8
KEG RIVER D4D	500.0	0.30		150.0		150.0	13.2	136.8
KEG RIVER E4E	156.0	<0.02		2.0		2.0	2.0	
KEG RIVER F4F	550.0	0.10	0.18	55.0	99.0	154.0	28.7	125.3
WATER FLOOD								
KEG RIVER G4G	894.0	0.25		224.0		224.0	25.8	198.2
KEG RIVER H4H	400.0	0.30		120.0		120.0	25.4	94.6
KEG RIVER I4I	100.0	0.20		20.0		20.0	0.5	19.5
KEG RIVER J4J	100.0	0.25		25.0		25.0	11.7	13.3
KEG RIVER K4K	225.0	0.25		56.3		56.3	7.6	48.7
KEG RIVER L4L	450.0	0.25		113.0		113.0	10.8	102.2
KEG RIVER M4M	240.0	0.10		24.0		24.0	1.4	22.6
KEG RIVER N4N	342.0	0.20		68.4		68.4	3.8	64.6
KEG RIVER O4O	250.0	0.40		100.0		100.0	43.5	56.5
KEG RIVER P4P	85.8	0.25		21.5		21.5	7.5	14.0
KEG RIVER Q4Q	425.0	0.20		85.0		85.0	7.4	77.6
KEG RIVER R4R	335.0	0.30		101.0		101.0	11.3	89.7
KEG RIVER S4S	502.0	0.25		126.0		126.0		126.0
VULCAN 016-24W4								
BASAL MANNVILLE C	69.3	0.20		13.9		13.9	12.7	1.2
WANYANDIE 060-27W5								
CARDIUM A	242.0	0.10		24.2		24.2	7.8	16.4
CARDIUM B	424.0	<0.01		0.1		0.1	0.1	
CARDIUM C	397.0	0.05		19.9		19.9	1.6	18.3
WAPITI 067-06W6								
CARDIUM A & B	13 650.0	0.10		1 365.0		1 365.0	190.1	1 174.9
DUNVEGAN A	452.0	0.10		45.2		45.2	6.7	38.5
DUNVEGAN B	1 726.0	0.10		173.0		173.0	47.1	125.9
DUNVEGAN E	292.0	0.10		29.2		29.2	1.6	27.6
WASKAHIGAN 063-24W5								
DUNVEGAN A	3 000.0	0.05		150.0		150.0	122.4	27.6
DUNVEGAN C	520.0	0.05		26.0		26.0	16.7	9.3
DUNVEGAN D	133.0	0.10		13.3		13.3	12.4	0.9

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
13	40.93	0.075	0.10	0.78	90	839	72	14 040	1 513.9	1970	71 09 - GPP
6	54.60	0.085	0.10	0.81	53	849	79	12 600	1 500.2	1971	75 12 - ABAND 89 07
10	48.77	0.120	0.10	0.80	76	849	73	12 450	1 523.1	1971	84 12 - GPP
11	48.89	0.030	0.23	0.82	80	849	73	14 530	1 508.5	1971	72 07 - ABAND 89 08
13	91.74	0.073	0.10	0.84	89	865	70	10 450	1 512.4	1971	81 12 - ABAND 89 07
11	49.07	0.105	0.18	0.86	53	865	70	10 640	1 476.5	1972	89 12 - SUSP 87 03
11	72.40	0.120	0.07	0.84	57	855	69	12 500	1 495.3	1972	84 07
14	60.43	0.087	0.21	0.86	33	870	60	6 235	1 483.1	1972	87 07
12	45.72	0.070	0.15	0.77	89	829	81	15 240	1 531.9	1972	73 05
10	54.86	0.120	0.10	0.83	51	865	72	14 360	1 496.3	1972	85 12 - SUSP 85 06
7	32.80	0.090	0.10	0.87	53	870	69	14 880	1 467.9	1972	82 12 - SUSP 81 12
5	31.18	0.095	0.18	0.87	33	876	65	13 810	1 449.6	1973	74 05 - GPP
9	55.17	0.136	0.10	0.87	43	870	62	14 270	1 471.6	1973	86 12 - GPP
39	15.88	0.100	0.23	0.85	59	855	67	14 040	1 473.1	1973	79 12 - ABAND 88 12
29	21.46	0.072	0.18	0.85	57	855	69	12 580	1 481.3	1973	78 03 - ABAND 88 12
13	22.70	0.050	0.18	0.80	89	839	60	15 670	1 574.0	1974	74 12 - GPP
32	19.51	0.063	0.20	0.80	76	829	70	15 220	1 539.8	1969	85 12 - SUSP 85 03
12	54.25	0.090	0.20	0.84	66	849	72	15 060	1 490.5	1977	87 12 - GPP
8	22.60	0.060	0.30	0.86	35	850	68	14 380	1 459.0	1980	82 12 - SUSP 81 02
16	42.00	0.072	0.12	0.83	35	852	77	15 240	1 496.0	1981	81 09
8	22.50	0.060	0.20	0.86	46	835	64	9 278	1 584.8	1981	85 12 - ABAND 86 12
64	19.50	0.055	0.30	0.80	77	854	55	14 163	1 541.3	1982	86 12 - SUSP 86 02
16	27.00	0.110	0.20	0.86	34	850	65	14 724	1 555.5	1982	89 12 - SUSP 87 02
16	18.00	0.050	0.26	0.86	49	872	70	14 000	1 454.5	1983	85 06 - SUSP 85 03
4	46.48	0.080	0.13	0.85	58	860	71	7 346	1 502.5	1982	84 06 - ABAND 87 02
8	52.70	0.047	0.21	0.85	48	854	85	11 105	1 484.8	1984	85 09
13	52.59	0.116	0.11	0.85	51	862	71	14 867	1 495.1	1984	86 06
64	15.90	0.026	0.50	0.87	43	890	68	13 765	1 443.1	1984	85 05 - ABAND 88 03
30	20.33	0.030	0.40	0.85	51	871	71	13 566	1 457.9	1985	86 06
16	32.30	0.032	0.25	0.73	104	844	73	14 717	1 498.2	1984	89 12
4	37.60	0.051	0.25	0.87	30	878	68	8 452	1 467.4	1985	86 03 - SUSP 88 11
23	38.85	0.092	0.18	0.89	38	858	68	14 422	1 474.5	1985	86 08
23	30.83	0.069	0.16	0.73	104	875	73	15 151	1 533.2	1985	86 09
26	13.22	0.080	0.20	0.85	58	850	72	14 766	1 569.5	1985	87 01
11	77.68	0.081	0.16	0.86	30	873	68	11 997	1 486.7	1985	86 06
64	10.00	0.040	0.29	0.86	30	875	68	12 403	1 444.0	1985	86 01 - ABAND 87 11
10	73.90	0.095	0.13	0.90	33	889	70	13 555	1 496.5	1985	88 10
30	41.00	0.096	0.13	0.87	43	832	68	12 181	1 477.6	1985	88 05
7	73.90	0.107	0.16	0.86	241	891	68	13 738	1 504.5	1985	87 04
13	17.47	0.064	0.20	0.86	44	855	15	14 138	1 477.5	1986	87 04 - SUSP 89 12
19	29.10	0.034	0.30	0.76	106	872	68	14 712	1 531.2	1985	87 01
30	20.49	0.052	0.20	0.88	34	852	67	13 969	1 460.8	1986	87 07
14	44.58	0.101	0.17	0.86	48	874	64	13 560	1 531.0	1986	87 07
11	38.23	0.079	0.15	0.85	51	808	71	14 229	1 489.0	1986	87 12
31	19.68	0.074	0.14	0.88	37	872	57	13 954	1 458.8	1986	87 12
14	59.80	0.048	0.26	0.84	72	869	71	15 596	1 506.0	1987	88 09
6	34.60	0.076	0.15	0.64	193	839	78	13 677	1 564.5	1987	87 05
38	20.72	0.073	0.13	0.85	43	867	68	13 210	1 519.5	1986	88 06
17	56.50	0.068	0.21	0.65	159	839	78	13 510	1 555.0	1987	88 06
64	29.50	0.041	0.19	0.80	78	844	70	12 118	1 579.3	1988	89 08
32	4.01	0.100	0.40	0.90	80	854	49	14 085	1 630.0	1962	88 08 - GPP
64	15.39	0.066	0.40	0.62	134	817	65	15 170	2 232.7	1980	81 06
64	17.80	0.077	0.22	0.62	180	780	65	15 410	2 149.6	1982	88 12 - SUSP 83 04
64	15.90	0.090	0.30	0.62	134	823	65	15 186	2 154.8	1980	85 12
2 492	8.25	0.112	0.25	0.79	98	810	40	10 462	1 406.5	1969	87 11
192	2.80	0.150	0.34	0.80	88	816	50	10 313	1 639.3	1958	87 05
970	1.91	0.164	0.29	0.80	88	800	50	10 032	1 507.4	1980	89 01
64	6.80	0.120	0.30	0.80	88	816	50		1 560.4	1988	88 12
698	5.77	0.145	0.35	0.79	76	834	57	10 240	1 539.2	1967	85 08 - GPP
128	4.61	0.180	0.38	0.79	88	831	40	7 832	1 523.7	1981	85 08 - GPP
64	2.70	0.130	0.25	0.79	88	834	54	10 396	1 764.9	1981	82 03

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
WATELET 047-26W4								
BELLY RIVER B	281.0	0.02		5.6		5.6	1.7	3.9
ELLERSLIE A	320.0	0.15		48.0		48.0	40.8	7.2
WATTS 031-16W4								
LOWER MANNVILLE A	139.0	0.10		13.9		13.9	7.6	6.3
LOWER MANNVILLE B	167.0	0.10		16.7		16.7	6.3	10.4
LOWER MANNVILLE D	231.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE E	496.0	0.05		24.8		24.8	7.9	16.9
LOWER MANNVILLE I	220.0	0.10		22.0		22.0	6.2	15.8
LOWER MANNVILLE J	418.0	0.05		20.9		20.9	0.1	20.8
LOWER MANNVILLE K	161.0	0.05		8.0		8.0		8.0
BANFF A	50.0	0.10		5.0		5.0	1.8	3.2
BANFF C	557.0	0.10		55.7		55.7	22.9	32.8
BANFF D	829.0	0.10		82.9		82.9	21.9	61.0
BANFF G	114.0	<0.01		0.4		0.4	0.4	
BANFF H	5 676.0	0.15		851.0		851.0	263.7	587.3
BANFF I	962.0	0.15		144.0		144.0	52.8	91.2
BANFF J	89.1	0.15		13.4		13.4	3.5	9.9
BANFF L	200.0	0.20		40.0		40.0	18.6	21.4
BANFF M	760.0	0.10		76.0		76.0	20.5	55.5
BANFF N	322.0	0.10		32.2		32.2	6.5	25.7
BANFF O	159.0	0.15		23.9		23.9	14.2	9.7
BANFF P	86.4	0.15		13.0		13.0	0.1	12.9
BANFF Q	168.0	0.15		25.2		25.2	9.3	15.9
BANFF W	233.0	0.15		35.0		35.0	6.0	29.0
BANFF X	492.0	0.03		14.8		14.8	7.3	7.5
BANFF Y	804.0	0.10		80.4		80.4	12.5	67.9
BANFF Z	421.0	0.10		42.1		42.1	8.8	33.3
BANFF AA	255.0	0.05		12.8		12.8	1.5	11.3
WAYNE-ROSEDALE 027-20W4								
VIKING H	73.6	0.10		7.3		7.3	5.3	2.0
VIKING M	106.0	<0.04		4.2		4.2	4.2	
UPPER MANNVILLE E	351.0	0.01		3.5		3.5	1.9	1.6
GLAUCONITIC F	159.0	0.01		1.6		1.6	0.9	0.7
GLAUCONITIC L	130.0	0.10		13.0		13.0	5.2	7.8
GLAUCONITIC M	435.0	0.01		4.4		4.4	2.5	1.9
GLAUCONITIC N	213.0	0.01		2.1		2.1	1.6	0.5
GLAUCONITIC DD	93.7	<0.01		0.4		0.4	0.4	
GLAUCONITIC EE	105.0	0.10		10.5		10.5		10.5
OSTRACOD D	78.3	0.10		7.8		7.8	4.2	3.6
OSTRACOD J	175.0	0.10		17.5		17.5	4.9	12.6
OSTRACOD M	224.0	0.10		22.4		22.4	7.0	15.4
BASAL QUARTZ A	159.0	<0.01		0.1		0.1	0.1	
BASAL QUARTZ B	10 900.0	0.08		872.0		872.0	659.6	212.4
BASAL QUARTZ E	3 857.0	0.03		116.0		116.0	72.6	43.4
BASAL QUARTZ F	105.0	0.10		10.5		10.5	10.0	0.5
BASAL QUARTZ G	77.5	<0.01		0.1		0.1	0.1	
BASAL QUARTZ H	157.0	<0.02		2.5		2.5	2.5	
BASAL QUARTZ O	149.0	0.04		6.0		6.0	5.2	0.8
BASAL QUARTZ U	532.0	<0.01		0.2		0.2	0.2	
BASAL QUARTZ AA	498.0	<0.01		0.3		0.3	0.3	
BASAL QUARTZ BB	357.0	<0.01		0.3		0.3	0.3	
BASAL QUARTZ DD	549.0	0.01		5.5		5.5	3.1	2.4
BASAL QUARTZ EE	205.0	<0.01		0.1		0.1	0.1	
BASAL QUARTZ FF	156.0	<0.01		0.1		0.1	0.1	
BASAL QUARTZ GG	2 120.0	0.12		254.0		254.0	108.8	145.2
BASAL QUARTZ NN	291.0	<0.01		0.1		0.1	0.1	
BASAL QUARTZ OO	463.0	0.10		46.3		46.3	16.3	30.0
BASAL QUARTZ PP	441.0	0.02		8.8		8.8	6.1	2.7
BASAL QUARTZ QQ	184.0	0.10		18.4		18.4	5.4	13.0
BASAL QUARTZ RR	150.0	0.10		15.0		15.0	5.5	9.5
BASAL QUARTZ VV	424.0	0.02		8.5		8.5	2.2	6.3
BASAL QUARTZ CCC	510.0	0.10		51.0		51.0	5.5	45.5
BASAL QUARTZ FFF	341.0	0.10		34.1		34.1	0.5	33.6
BASAL QUARTZ GGG	214.0	0.04		8.6		8.6	3.5	5.1
BANFF C	300.0	0.15		45.0		45.0	33.3	11.7
WEMBLEY 073-08W6								
CHARLIE LAKE A	90.1	0.10		9.0		9.0	6.9	2.1
CHARLIE LAKE B	177.0	0.10		17.7		17.7	9.9	7.8

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.00	0.250	0.35	0.90	28	865	31	5 270	723.0	1981	88 12 - GPP
147	2.08	0.160	0.25	0.87	51	898	52	11 050	1 475.3	1965	83 12 - GPP
64	2.00	0.210	0.40	0.86	56	850	32	9 146	1 217.5	1982	82 08
64	2.90	0.170	0.40	0.88	49	867	37	9 274	1 206.6	1984	85 01
64	3.70	0.180	0.37	0.86	57	850	37	8 080	1 155.0	1986	89 12 - SUSP 86 10
64	5.80	0.230	0.34	0.88	49	880	36	9 280	1 261.4	1986	88 03
64	3.00	0.210	0.35	0.84	66	860	35	8 843	1 207.5	1986	88 01
64	4.70	0.210	0.24	0.87	51	853	42	8 845	1 276.9	1987	88 06 - SUSP 89 04
64	3.00	0.140	0.35	0.92	30	853	38		1 264.5	1987	89 10
64	4.86	0.035	0.46	0.85	61	849	42	9 310	1 255.9	1970	86 10
259	4.71	0.070	0.26	0.88	58	862	40	8 300	1 271.3	1984	87 09
384	5.72	0.060	0.26	0.85	60	864	39	9 852	1 225.5	1984	85 12
64	6.30	0.045	0.26	0.85	60	882	42	9 152	1 246.8	1985	89 12 - SUSP 86 10
805	15.00	0.070	0.21	0.85	55	860	47	9 225	1 249.2	1986	87 10
192	14.18	0.054	0.23	0.85	61	885	42	9 501	1 248.9	1986	88 01
64	7.00	0.030	0.22	0.85	66	860	33	8 926	1 257.3	1982	86 06
72	6.60	0.080	0.38	0.85	61	849	42	9 581	1 247.8	1981	88 12
423	5.64	0.050	0.25	0.85	61	877	42	9 425	1 231.0	1982	87 11
64	16.00	0.050	0.26	0.85	61	882	42	9 362	1 272.0	1986	86 12
64	7.50	0.060	0.35	0.85	66	883	31	9 458	1 235.8	1986	87 01
64	6.30	0.040	0.37	0.85	66	883	31	9 268	1 240.0	1986	87 01 - SUSP 88 10
64	11.00	0.040	0.30	0.85	66	883	31	9 608	1 232.5	1986	89 12
64	9.50	0.060	0.25	0.85	63	849	42	8 722	1 252.8	1986	87 10
64	27.00	0.050	0.33	0.85	61	850	30	9 555	1 269.2	1987	89 12
192	14.28	0.050	0.31	0.85	61	849	42	9 056	1 279.8	1987	88 01
128	12.56	0.040	0.23	0.85	61	849	42	9 142	1 267.1	1987	89 12
64	9.60	0.065	0.25	0.85	61	845	42		1 250.0	1987	89 11
65	0.91	0.220	0.35	0.87	54	811	39	6 571	1 042.4	1973	76 05 - GPP
64	1.22	0.240	0.35	0.87	54	811	32	7 920	1 053.7	1977	88 12 - SUSP 86 08
32	14.00	0.140	0.30	0.80	88	857	40	10 040	1 437.3	1979	83 12 - GPP
65	1.86	0.200	0.20	0.82	80	829	43	9 690	1 351.0	1961	82 12 - GPP
64	3.10	0.140	0.46	0.87	53	876	46	9 970	1 338.5	1973	79 01 - GPP
64	5.50	0.230	0.39	0.88	47	892	46	9 570	1 339.0	1978	80 12 - GPP
32	6.10	0.180	0.25	0.81	64	856	52	9 437	1 224.8	1958	83 12 - GPP
64	2.20	0.150	0.49	0.87	50	869	45	8 509	1 329.5	1984	88 12 - SUSP 86 08
64	1.90	0.170	0.39	0.83	66	860	43	8 974	1 218.7	1984	85 12
64	1.50	0.170	0.40	0.80	98	869	39	8 953	1 446.3	1980	81 07 - GPP
128	1.07	0.210	0.24	0.80	62	870	43	8 932	1 414.5	1980	86 12 - GPP
128	1.89	0.190	0.39	0.80	82	870	40	8 961	1 392.9	1987	89 05
36	7.32	0.165	0.55	0.82	71	815	41	9 660	1 363.4	1959	74 12 - SUSP 69 12
1 483	11.83	0.160	0.52	0.82	71	870	44	10 340	1 369.2	1954	86 01 - GPP
576	9.50	0.150	0.46	0.87	48	878	47	10 270	1 353.4	1962	87 07 - GPP
110	1.00	0.170	0.30	0.80	74	870	48	10 340	1 371.9	1957	86 12 - GPP
16	10.70	0.123	0.55	0.81	71	870	43	9 790	1 374.3	1962	63 02 - ABAND 63 08
16	9.14	0.180	0.27	0.81	74	870	48	10 070	1 440.8	1961	71 05 - ABAND 83 02
65	2.44	0.226	0.49	0.82	53	860	38	10 051	1 445.4	1959	78 10 - GPP
65	6.71	0.220	0.32	0.82	74	865	49	9 900	1 364.6	1972	73 02 - ABAND 72 06
64	7.50	0.190	0.35	0.84	68	857	38	9 290	1 414.8	1979	85 12 - ABAND 81 08
64	8.20	0.160	0.50	0.85	68	857	40	9 700	1 455.9	1979	82 12 - ABAND 81 05
64	11.00	0.150	0.35	0.80	67	857	41	8 586	1 360.9	1979	83 12 - GPP
64	4.39	0.140	0.35	0.80	88	857	41	10 515	1 494.0	1979	83 12 - SUSP 81 09
64	3.90	0.120	0.35	0.80	88	857	44	10 091	1 443.3	1979	80 08 - SUSP 83 12
712	4.90	0.146	0.48	0.80	63	862	38	9 649	1 359.7	1976	83 06
64	6.00	0.170	0.45	0.81	58	883	39	9 636	1 390.3	1981	82 11 - SUSP 84 02
128	9.30	0.120	0.60	0.81	72	863	38	9 620	1 203.2	1981	85 12
64	12.00	0.140	0.50	0.82	70	872	47	9 834	1 288.5	1981	86 12
64	5.00	0.140	0.50	0.82	70	882	47	9 804	1 254.2	1980	83 01
64	5.30	0.120	0.55	0.82	74	819	39	8 723	1 229.2	1982	83 01
64	9.40	0.160	0.45	0.80	60	876	52	9 554	1 336.3	1980	85 12
340	2.82	0.130	0.53	0.87	53	885	40	8 763	1 233.9	1984	87 11
64	9.00	0.140	0.52	0.88	48	878	47	9 233	1 315.5	1986	86 11 - SUSP 89 02
64	4.30	0.180	0.48	0.83	70	857	30	8 500	1 257.0	1977	87 01 - GPP
193	2.80	0.140	0.51	0.81	59	877	36	9 856	1 385.6	1980	86 12 - GPP
64	2.00	0.110	0.20	0.80	75	832	59	19 660	2 077.4	1981	86 12
64	3.00	0.139	0.15	0.78	183	832	83	19 546	2 064.3	1980	81 05

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
WEMBLEY 073-08W6 (CONTINUED)								
CHARLIE LAKE C	146.0	0.10		14.6		14.6	2.9	11.7
CHARLIE LAKE D	137.0	0.20		27.0		27.0	13.0	14.0
CHARLIE LAKE E	130.0	0.15		19.5		19.5	8.5	11.0
CHARLIE LAKE F	176.0	0.15		26.4		26.4	6.6	19.8
CHARLIE LAKE G	165.0	0.15		24.8		24.8	2.6	22.2
HALFWAY R	49.6	0.01		0.5		0.5	0.5	
HALFWAY U	99.0	0.15		14.9		14.9	4.0	10.9
HALFWAY B	23 000.0	0.20		4 600.0		4 600.0	1 778.5	2 821.5
DOIG E	2 817.0	0.10		282.0		282.0	158.3	123.7
DOIG F	71.0	0.15		10.7		10.7	0.8	9.9
DOIG G	1 200.0	0.03		36.0		36.0	19.8	16.2
WERNER 034-12W4								
GLAUCONITIC A	247.0	0.03		7.4		7.4	1.3	6.1
WEST COVE 055-06W5								
NORDEGG-BANFF A	895.0	<0.01		2.1		2.1	2.1	
NORDEGG-BANFF B	144.0	<0.01		0.1		0.1	0.1	
WEST DRUMHELLER 030-20W4								
D-2 A	7 170.0	0.65		4 660.0		4 660.0	4 521.8	138.2
D-2 B	30.4	<0.01		0.1		0.1	0.1	
IRETON A	326.0	0.15		48.9		48.9	46.3	2.6
D-3 A	1 250.0	0.65		813.0		813.0	779.6	33.4
WESTEROSE 046-28W4								
BELLY RIVER A	451.0	0.05		22.6		22.6	0.5	22.1
D-3	31 000.0	0.71		22 000.0		22 000.0	21 291.5	708.5
WESTEROSE SOUTH 043-02W5								
VIKING A	113.0	0.15		17.0		17.0	5.9	11.1
OSTRACOD A	17.0	<0.01		0.1		0.1	0.1	
BASAL QUARTZ A	256.0	<0.01		0.2		0.2	0.2	
BASAL QUARTZ D	359.0	0.02		7.2		7.2	2.0	5.2
BASAL QUARTZ E	125.0	0.05		6.3		6.3	3.7	2.6
BASAL QUARTZ G	25.4	0.10		2.5		2.5	0.9	1.6
BANFF A	144.0	<0.01		0.3		0.3	0.3	
WESTPEM 049-13W5								
SECOND WHITE SPECKS A	39.0	0.10		3.9		3.9	1.6	2.3
OSTRACOD A	249.0	0.10		24.9		24.9	8.0	16.9
OSTRACOD B	78.0	0.10		7.8		7.8	3.2	4.6
OSTRACOD C	39.2	<0.01		0.2		0.2	0.2	
OSTRACOD D	69.7	0.10		7.0		7.0	3.7	3.3
OSTRACOD F	174.0	0.20		34.8		34.8		34.8
NISKU A	2 650.0	0.40	0.35	1 060.0	1 140.0	2 200.0	1 518.3	681.7
SOLVENT FLOOD								
NISKU C	4 000.0	0.40	0.40	1 600.0	1 600.0	3 200.0	2 080.9	1 119.1
SOLVENT FLOOD								
NISKU D	2 200.0	0.40	0.30	880.0	924.0	1 804.0	1 257.5	546.5
SOLVENT FLOOD								
WHITECOURT 060-11W5								
VIKING A	32.3	<0.02		0.5		0.5	0.5	
JURASSIC K	89.8	0.15		13.5		13.5	7.8	5.7
JURASSIC L	624.0	0.05		31.2		31.2		31.2
PEKISKO F	62.8	0.05		3.1		3.1	0.2	2.9
WHITEMUD 051-25W4								
BLAIRMORE	238.0	<0.18		42.2		42.2	42.2	
ELLERSLIE A	215.0	0.10		21.5		21.5	0.4	21.1
WILDWOOD 054-09W5								
BASAL QUARTZ A	204.0	0.02		4.1		4.1	2.2	1.9
PEKISKO A	499.0	<0.02		8.5		8.5	8.5	

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	2.80	0.120	0.13	0.78	91	845	72	19 521	2 189.2	1982	86 02
128	2.07	0.090	0.18	0.70	135	840	66	24 435	2 033.5	1979	89 04
80	1.50	0.150	0.10	0.80	135	840	69	24 614	2 062.5	1986	87 12
64	2.40	0.180	0.15	0.75	120	823	76	19 235	2 080.4	1985	86 09
128	2.29	0.100	0.16	0.67	140	833	72	21 172	2 051.3	1988	89 12
64	2.55	0.090	0.48	0.65	183	807	83	21 172	2 225.5	1984	85 07 - SUSP 85 09
64	3.80	0.082	0.32	0.73	123	830	76	20 966	2 049.9	1985	85 12
7 205	6.60	0.102	0.27	0.65	183	802	83	21 443	2 128.3	1978	87 10
592	13.71	0.070	0.26	0.67	162	802	76	21 795	2 162.4	1984	89 12 - GPP
64	2.90	0.070	0.19	0.67	140	838	73	21 141	2 143.6	1984	84 12
192	18.14	0.075	0.28	0.64	171	809	81	23 258	2 322.1	1982	87 12
64	3.50	0.200	0.40	0.92	31	867	34	10 985	1 067.3	1981	89 12
64	16.17	0.156	0.37	0.88	50	904	45	11 321	1 468.9	1980	85 04 - ABAND 89 03
32	6.70	0.120	0.39	0.92	27	919	43	8 855	1 460.1	1984	85 06 - ABAND 87 03
1 730	14.00	0.050	0.20	0.74	120	815	56	13 790	1 674.3	1952	83 12 - GPP
64	2.00	0.045	0.40	0.88	120	833	44	13 280	1 700.0	1985	85 11 - SUSP 85 08
445	3.05	0.040	0.25	0.80	78	811	64	13 806	1 712.4	1954	80 04 - GPP
272	7.50	0.087	0.13	0.81	69	839	57	14 070	1 723.3	1954	85 12 - GPP - MRL
64	9.30	0.189	0.55	0.89	52	845	33	6 458	932.0	1986	86 08
652	72.20	0.105	0.07	0.67	166	820	82	17 930	2 204.6	1952	83 12 - GPP
64	3.50	0.095	0.35	0.82	80	827	51	15 329	1 744.1	1986	86 08
64	0.80	0.065	0.36	0.80	74	870	72	16 389	1 868.3	1981	89 12 - SUSP 87 08
64	5.50	0.130	0.30	0.80	86	882	60	12 635	1 889.8	1980	83 12 - ABAND 87 06
64	5.00	0.165	0.15	0.80	85	851	59	16 249	1 852.0	1984	89 12 - GPP
64	3.30	0.095	0.17	0.75	120	854	60	18 025	1 992.6	1985	89 10 - GPP
64	1.00	0.090	0.32	0.65	174	812	80	17 569	1 904.7	1988	88 03 - SUSP 89 01
64	2.80	0.130	0.24	0.80	90	910	49	12 886	1 771.6	1980	84 12 - SUSP 82 12
64	2.00	0.050	0.15	0.71	120	820	63	14 406	2 104.0	1988	88 12
64	4.00	0.150	0.10	0.72	125	811	88	17 037	2 462.0	1981	82 11
64	2.40	0.083	0.15	0.72	110	778	80	32 200	2 432.7	1983	84 09
64	1.70	0.085	0.20	0.53	165	805	97	20 050	2 738.7	1985	87 12 - SUSP 86 02
64	1.58	0.114	0.16	0.72	110	786	95	27 286	2 393.9	1986	86 09
128	3.00	0.085	0.30	0.76	260	812	96	27 558	2 755.8	1988	89 12
61	79.62	0.100	0.12	0.62	208	815	100	38 230	2 929.4	1977	88 08
60	90.35	0.110	0.14	0.78	130	824	104	31 915	3 033.0	1979	85 02
77	49.50	0.117	0.07	0.53	328	798	104	40 962	3 139.3	1979	88 08
65	0.61	0.170	0.40	0.80	82	844	66	8 290	1 252.4	1968	71 05 - ABAND 70 05
64	3.00	0.110	0.50	0.85	52	864	68	11 050	1 719.8	1976	88 12
64	9.55	0.185	0.38	0.89	88	887	70	16 291	1 826.6	1987	88 09
16	4.00	0.180	0.38	0.88	47	951	62	12 668	1 532.5	1987	88 05
81	3.47	0.150	0.30	0.81	77	839	53	9 030	1 244.2	1949	74 12 - ABAND 70 09
64	3.20	0.190	0.30	0.79	97	840	54	9 612	1 264.5	1987	88 06 - SUSP 88 10
64	4.20	0.130	0.20	0.73	128	839	65	16 374	1 767.5	1980	86 12
128	5.21	0.120	0.22	0.80	75	852	58	12 955	1 732.6	1982	89 12 - SUSP 87 06

TABLE 2-4

FIELD POOL	1 INITIAL VOLUME IN PLACE 103m3	3 RECOVERY		5 INITIAL ESTABLISHED RESERVES			7 CUMULATIVE PRODUCTION 103m3	8 REMAINING ESTABLISHED RESERVES 103m3
		PRIMARY frac	ENHANCED frac	PRIMARY 103m3	ENHANCED 103m3	TOTAL 103m3		
WILLESSEN GREEN 042-07W5								
BELLY RIVER A WATER FLOOD	1 220.0	0.06	0.06	73.2	73.2	146.0	107.0	39.0
BELLY RIVER B	2 179.0	0.02		43.6		43.6	37.1	6.5
BELLY RIVER C	42.4	<0.09		3.7		3.7	3.7	
BELLY RIVER H	331.0	0.12		39.7		39.7	25.7	14.0
BELLY RIVER J	200.0	0.10		20.0		20.0	16.0	4.0
BELLY RIVER L	307.0	0.03		9.2		9.2	8.6	0.6
BELLY RIVER M	351.0	<0.01		0.1		0.1	0.1	
BELLY RIVER N	628.0	0.03		18.8		18.8	0.4	18.4
BELLY RIVER O	325.0	0.03		9.8		9.8	4.0	5.8
BELLY RIVER Q	359.0	<0.01		0.6		0.6	0.6	
BELLY RIVER R	454.0	0.03		13.6		13.6	2.6	11.0
BELLY RIVER S	314.0	<0.01		0.1		0.1	0.1	
BELLY RIVER T	165.0	0.02		3.3		3.3	1.9	1.4
BELLY RIVER V	609.0	0.10		60.9		60.9	14.7	46.2
BELLY RIVER Y	171.0	0.10		17.1		17.1	0.4	16.7
BELLY RIVER Z	124.0	<0.01		0.4		0.4	0.4	
BELLY RIVER BB	185.0	0.03		5.6		5.6	1.7	3.9
BELLY RIVER DD	70.1	0.10		7.0		7.0	0.5	6.5
BELLY RIVER EE	388.0	0.10		38.8		38.8	9.8	29.0
BELLY RIVER FF	114.0	0.10		11.4		11.4	0.6	10.8
BELLY RIVER HH	148.0	<0.01		0.3		0.3	0.3	
BELLY RIVER II	426.0	0.05		21.3		21.3	6.1	15.2
BELLY RIVER JJ	115.0	0.05		5.8		5.8	2.1	3.7
BELLY RIVER MM	217.0	0.10		21.7		21.7	5.2	16.5
BELLY RIVER NN	178.0	0.10		17.8		17.8	0.6	17.2
BELLY RIVER OO	457.0	0.10		45.7		45.7	5.4	40.3
BELLY RIVER PP	229.0	0.05		11.5		11.5	0.7	10.8
BELLY RIVER QQ	98.0	0.05		4.9		4.9	1.1	3.8
BELLY RIVER RR	607.0	0.10		60.7		60.7	6.6	54.1
BELLY RIVER SS	160.0	0.05		8.0		8.0		8.0
BELLY RIVER TT	209.0	0.10		20.9		20.9	0.8	20.1
BELLY RIVER UU	147.0	0.10		14.7		14.7	1.6	13.1
BELLY RIVER W & X	442.0	0.05		22.1		22.1	3.0	19.1
CARDIUM A TOTAL	123 300.0			10 530.0	15 200.0	25 730.0	17 600.0	8 130.0
PRIMARY AREA	19 180.0	0.09		1 726.0		1 726.0		
SOLVENT FLOOD AREA	35 600.0	0.07	0.07	2 480.0	2 480.0	5 000.0		
WATER FLOOD AREA	68 500.0	0.09	0.18	6 320.0	12 700.0	19 000.0		
CARDIUM D	122.0	0.07		8.6		8.6	0.1	8.5
CARDIUM E	409.0	0.10		40.9		40.9	32.4	8.5
CARDIUM G	88.2	0.05		4.4		4.4	1.7	2.7
CARDIUM H	170.0	0.08		13.6		13.6	12.4	1.2
CARDIUM I	190.0	0.10		19.0		19.0	5.4	13.6
CARDIUM J	243.0	0.02		4.9		4.9	2.4	2.5
CARDIUM K	86.9	<0.02		1.3		1.3	1.3	
CARDIUM L	76.6	<0.01		0.1		0.1	0.1	
SECOND WHITE SPECKS A	54.7	0.20		10.9		10.9	7.0	3.9
SECOND WHITE SPECKS B	730.0	0.02		14.6		14.6	7.8	6.8
SECOND WHITE SPECKS C	108.0	0.15		16.2		16.2	9.8	6.4
SECOND WHITE SPECKS D	729.0	0.04		29.0		29.0	25.3	3.7
SECOND WHITE SPECKS E	2 419.0	0.10		242.0		242.0	35.4	206.6
SECOND WHITE SPECKS F	73.2	0.10		7.3		7.3	0.3	7.0
SECOND WHITE SPECKS G	1 700.0	<0.01		1.2		1.2	1.2	
SECOND WHITE SPECKS H	439.0	0.10		43.9		43.9	4.1	39.8
SECOND WHITE SPECKS I	356.0	0.10		35.6		35.6		35.6
SECOND WHITE SPECKS J	132.0	0.10		13.2		13.2		13.2
SECOND WHITE SPECKS K	2 183.0	0.05		109.0		109.0	7.7	101.3
VIKING A	7 100.0	0.11		780.0		780.0	574.8	205.2
VIKING B	490.0	0.25		123.0		123.0	100.9	22.1
VIKING G	190.0	0.15		28.5		28.5	14.9	13.6

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
324	4.24	0.140	0.28	0.88	62	815	53	9 070	1 538.3	1961	85 12 - GPP
512	4.86	0.137	0.23	0.83	62	815	54	9 140	1 568.8	1956	89 12 - GPP
30	1.22	0.200	0.30	0.83	60	815	53	8 960	1 531.0	1961	73 02 - ABAND 64 10
64	6.85	0.130	0.30	0.83	62	820	47	9 220	1 597.2	1967	88 12
245	0.91	0.154	0.30	0.83	59	815	52	9 530	1 525.8	1955	88 12
65	5.18	0.153	0.28	0.83	67	815	53	8 960	1 486.5	1962	80 12 - GPP
64	6.30	0.150	0.30	0.83	58	815	52	7 511	1 390.0	1978	82 12 - SUSP 80 01
128	7.70	0.137	0.44	0.83	65	825	56	8 144	1 413.6	1981	89 11 - GPP
64	5.90	0.140	0.26	0.83	66	831	42	8 636	1 461.2	1982	86 12 - GPP
64	5.30	0.150	0.15	0.83	65	773	55	8 659	1 532.1	1982	85 12 - ABAND 82 12
128	5.98	0.130	0.45	0.83	61	835	55	8 214	1 402.1	1982	89 01 - GPP
64	6.50	0.130	0.30	0.83	61	835	55	9 396	1 619.8	1978	84 03 - SUSP 84 02
64	3.70	0.120	0.30	0.83	61	835	55	10 233	1 578.7	1983	86 12 - GPP
128	6.30	0.130	0.30	0.83	61	834	55	9 360	1 561.2	1979	84 05
64	4.60	0.140	0.50	0.83	61	835	55	14 471	1 574.0	1962	84 09 - SUSP 89 04
64	2.00	0.180	0.35	0.83	70	844	40	7 457	1 509.0	1983	88 12 - SUSP 86 07
64	4.59	0.152	0.50	0.83	70	835	51	9 800	1 460.8	1984	87 12 - GPP
64	2.00	0.120	0.45	0.83	65	825	55	9 973	1 527.5	1985	86 07
128	4.21	0.124	0.30	0.83	68	823	52	8 271	1 609.5	1986	89 06
64	2.45	0.135	0.35	0.83	130	815	54	8 469	1 540.9	1986	87 05
64	5.00	0.110	0.40	0.70	130	782	54	10 870	1 630.1	1987	87 08 - SUSP 87 08
128	9.18	0.118	0.63	0.83	65	835	51	9 789	1 555.4	1987	88 01
64	3.60	0.120	0.50	0.83	65	835	51	8 339	1 593.6	1987	88 01
128	2.41	0.128	0.33	0.82	68	816	51	7 482	1 360.9	1987	89 05
64	3.92	0.133	0.24	0.70	130	781	54	7 867	1 530.5	1987	88 08
205	2.53	0.161	0.32	0.82	63	810	49	7 444	1 425.7	1987	89 10
64	4.60	0.150	0.26	0.70	130	782	54		1 482.4	1987	88 11 - SUSP 88 05
64	2.60	0.125	0.33	0.70	130	782	54		1 500.0	1987	88 11
128	6.31	0.147	0.27	0.70	130	781	54		1 508.0	1988	88 12
64	3.90	0.110	0.30	0.83	65	848	52	7 998	1 580.7	1976	88 12 - SUSP 88 11
64	4.00	0.155	0.38	0.85	54	831	53		1 370.8	1988	89 03
64	3.80	0.150	0.47	0.76	103	824	54	8 658	1 431.0	1973	89 05
111	7.29	0.120	0.35	0.70	61	835	55	9 641	1 505.6	1964	87 05 - GPP
54 807					176	820	60	21 200	1 897.4	1954	87 12 - GPP
11 580	2.53	0.114	0.13	0.66							
10 313	4.83	0.111	0.13	0.74							
32 914	2.29	0.153	0.10	0.66							
65	4.27	0.080	0.15	0.65	177	825	60	20 240	1 824.4	1976	78 09
192	4.26	0.100	0.23	0.65	176	830	55	20 340	1 914.1	1978	85 12
64	2.90	0.100	0.34	0.72	49	844	60	20 680	1 900.5	1979	84 12 - GPP
64	2.78	0.150	0.15	0.75	110	834	60	20 796	1 914.6	1975	78 12
64	3.00	0.150	0.13	0.76	100	832	60	19 651	1 985.3	1979	79 12
64	4.40	0.130	0.15	0.78	97	830	68	20 174	1 911.5	1983	86 12
64	2.00	0.100	0.13	0.78	97	830	68	19 825	2 012.0	1979	88 12 - SUSP 86 02
64	1.80	0.140	0.34	0.72	110	830	71	21 546	2 056.0	1980	87 09 - ABAND 89 03
100	1.22	0.080	0.20	0.70	149	801	71	21 520	2 051.0	1975	87 12 - GPP
64	10.80	0.220	0.25	0.64	187	818	40	22 893	2 082.0	1979	82 10 - GPP
64	3.00	0.100	0.20	0.70	149	810	74	18 867	2 133.5	1980	89 12 - GPP
128	14.10	0.090	0.30	0.64	186	833	69	24 183	2 113.8	1980	89 12
192	14.58	0.180	0.25	0.64	180	815	62	23 566	2 174.1	1987	88 05
64	2.50	0.110	0.35	0.64	187	833	69	24 077	2 120.8	1982	86 01
64	35.20	0.150	0.30	0.72	125	820	72	23 088	2 201.0	1981	82 03 - SUSP 86 06
64	17.00	0.090	0.30	0.64	187	833	69	24 060	2 121.0	1985	88 07
64	13.80	0.090	0.30	0.64	187	833	69	23 472	2 126.0	1985	88 07
64	5.10	0.090	0.30	0.64	187	833	69	23 096	2 080.4	1985	88 07
128	15.40	0.230	0.25	0.64	187	833	70	20 048	2 056.7	1985	89 10
7 900	2.41	0.082	0.30	0.65	154	834	74	25 168	2 182.8	1956	86 01 - GPP
750	1.65	0.090	0.30	0.63	177	815	79	22 702	2 103.0	1955	88 07 - ABAND
90	4.20	0.100	0.25	0.67	166	840	81	26 409	2 226.6	1980	85 12

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
WILLESSEN GREEN 042-07W5 (CONTINUED)								
VIKING H	1 650.0	0.10		165.0		165.0	64.1	100.9
VIKING L	28.7	<0.09		2.4		2.4	2.4	
VIKING M	50.7	<0.02		0.6		0.6	0.6	
VIKING O	19.3	<0.03		0.5		0.5	0.5	
VIKING R	83.9	<0.04		3.3		3.3	3.3	
VIKING S	45.7	<0.02		0.8		0.8	0.8	
VIKING T	89.8	0.15		13.5		13.5	3.3	10.2
VIKING V	12.3	0.15		1.8		1.8	1.6	0.2
VIKING W	90.1	0.20		18.0		18.0	7.6	10.4
VIKING Y	39.8	0.15		6.0		6.0	0.5	5.5
VIKING Z	440.0	0.04		20.0		20.0	17.2	2.8
VIKING AA	24.4	0.15		3.7		3.7	3.1	0.6
VIKING BB	37.9	0.15		5.7		5.7	2.5	3.2
VIKING CC	33.8	0.20		6.8		6.8	6.3	0.5
VIKING DD	59.4	0.15		8.9		8.9	1.0	7.9
GLAUCONITIC E	81.3	0.15		12.2		12.2	1.7	10.5
GLAUCONITIC A & ELLERSLIE D	1 629.0			235.0	70.5	305.0	251.1	53.9
PRIMARY AREA	219.0	0.10		21.9		21.9		
WATER FLOOD AREA	1 410.0	0.15	0.05	213.0	70.5	283.0		
ELLERSLIE B	134.0	0.10		13.4		13.4	4.5	8.9
ELLERSLIE E	92.2	0.10		9.2		9.2	5.9	3.3
ELLERSLIE F	206.0	<0.01		0.4		0.4	0.4	
ROCK CREEK B	54.0	<0.01		0.2		0.2	0.2	
ROCK CREEK C	135.0	0.10		13.5		13.5	1.3	12.2
ROCK CREEK D	118.0	<0.01		0.1		0.1		0.1
ROCK CREEK E	56.9	0.10		5.7		5.7	2.1	3.6
ROCK CREEK F	125.0	0.15		18.8		18.8	11.2	7.6
NORDEGG A	95.3	0.05		4.8		4.8	0.6	4.2
WILLINGDON 055-17W4								
VIKING H	87.0	<0.01		0.2		0.2	0.2	
WILLOW 028-17W4								
VIKING B	50.0	<0.01		0.3		0.3	0.3	
WILSON CREEK 043-04W5								
BELLY RIVER A	14 460.0	0.07		1 012.0		1 012.0	155.7	856.3
BELLY RIVER D	1 811.0	0.15		272.0		272.0	92.6	179.4
BELLY RIVER F	128.0	0.10		12.8		12.8	0.1	12.7
BELLY RIVER H	285.0	0.05		14.3		14.3	1.8	12.5
BELLY RIVER J	237.0	0.05		11.8		11.8		11.8
CARDIUM A	117.0	<0.01		0.6		0.6	0.6	
CARDIUM B	354.0	0.05		17.7		17.7	8.2	9.5
CARDIUM C	111.0	<0.02		1.4		1.4	1.4	
SECOND WHITE SPECKS A	79.5	0.10		8.0		8.0	0.5	7.5
VIKING A	43.2	0.20		8.6		8.6	6.9	1.7
OSTRACOD A	99.6	0.10		10.0		10.0	0.8	9.2
BANFF B	224.0	<0.02		4.3		4.3	4.3	
WIMBORNE 034-26W4								
GLAUCONITIC B	454.0	0.10		45.4		45.4	12.9	32.5
D-2 A	682.0	0.13		88.7		88.7	70.0	18.7
D-2 B	329.0	0.06		19.7		19.7	15.6	4.1
D-3 A	15 000.0	0.25		3 750.0		3 750.0	3 154.1	595.9
WINDFALL 060-15W5								
BLUESKY A	297.0	0.10		29.7		29.7	13.3	16.4
GETHING D	96.8	0.10		9.7		9.7	1.6	8.1
RUNDLE A	2 000.0	0.25		500.0		500.0	350.8	149.2
D-2 A	183.0	0.05		9.2		9.2	1.9	7.3
D-3 A	13 400.0	0.22		2 950.0		2 950.0	2 318.6	631.4
D-3 B TOTAL	1 310.0			131.0	32.4	163.0	133.6	29.4
PRIMARY AREA	500.0	0.10		50.0		50.0		
GAS FLOOD AREA	810.0	0.10	0.04	81.0	32.4	113.0		
D-3 C	795.0	0.10		79.5		79.5	30.5	49.0
D-3 F	187.0	0.20		37.4		37.4	3.0	34.4
D-3 G	628.0	0.20		126.0		126.0	7.0	119.0

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
384	4.90	0.160	0.13	0.63	180	718	86	22 796	2 294.1	1983	86 05
64	1.10	0.100	0.40	0.68	170	842	57	23 486	2 126.2	1983	89 12 - SUSP 87 02
64	1.30	0.130	0.31	0.68	210	823	70	22 679	2 277.9	1983	84 10 - ABAND 86 02
64	1.00	0.090	0.50	0.67	166	832	81	23 994	2 204.5	1984	84 10 - ABAND 86 08
128	1.80	0.080	0.32	0.67	166	832	81	26 153	2 200.6	1981	88 12 - SUSP 86 08
64	2.50	0.070	0.40	0.68	210	820	80	24 083	2 292.8	1984	84 12 - SUSP 85 11
64	5.04	0.063	0.35	0.68	165	824	65	21 424	2 209.3	1983	85 03
64	0.85	0.060	0.40	0.63	177	818	86	18 818	2 239.6	1983	85 05 - GPP
64	4.00	0.080	0.45	0.80	160	836	61	26 097	2 174.8	1984	85 06
64	1.77	0.076	0.30	0.66	170	818	80	24 044	2 287.3	1982	85 08 - SUSP 88 10
512	2.08	0.088	0.29	0.66	150	796	79	22 869	2 271.0	1982	87 11 - GPP
64	1.00	0.080	0.30	0.68	180	825	70	24 989	2 402.0	1983	87 12
128	1.00	0.064	0.32	0.68	154	833	38	17 445	2 135.5	1984	88 12
100	0.90	0.080	0.30	0.67	180	830	60	21 919	2 188.5	1985	88 08 - GPP
64	2.00	0.105	0.35	0.68	154	834	74	19 571	2 109.8	1980	88 09
64	2.00	0.110	0.23	0.75	95	870	104	23 010	2 356.0	1984	85 02 - SUSP 88 07
891					106	876	76	25 890	2 286.9	1963	89 10 - GPP
124	3.58	0.102	0.30	0.69							
767	3.20	0.119	0.30	0.69							
64	5.20	0.100	0.32	0.59	180	831	86	21 144	2 404.2	1983	84 09 - GPP
64	2.00	0.120	0.20	0.75	105	850	59	21 917	2 386.0	1985	85 09 - GPP
64	3.00	0.170	0.11	0.71	125	836	88	23 120	2 484.2	1985	85 09 - SUSP 86 04
64	3.15	0.054	0.38	0.80	83	896	70	14 313	2 366.4	1982	88 12 - ABAND 84 12
64	5.00	0.090	0.30	0.67	145	835	86	21 196	2 508.6	1983	84 09 - SUSP 87 12
64	3.00	0.093	0.15	0.78	79	891	70	18 741	2 487.0	1982	83 10 - ABAND 87 12
64	2.18	0.087	0.30	0.67	142	812	90	21 200	2 412.2	1984	85 06
80	4.20	0.087	0.21	0.54	160	812	89	22 809	2 483.5	1983	87 12
64	3.90	0.095	0.40	0.67	290	830	96	21 676	2 512.6	1987	89 04
64	1.10	0.240	0.44	0.92	30	878	28	5 016	648.5	1985	86 03 - ABAND 86 10
64	1.00	0.150	0.40	0.87	50	811	39	5 400	1 109.8	1982	83 05 - ABAND 89 07
4 040	5.31	0.140	0.42	0.83	62	833	68	6 942	1 287.4	1979	89 09
503	4.72	0.150	0.38	0.82	82	815	42	7 620	1 309.6	1966	89 10
64	2.50	0.150	0.35	0.82	65	800	74	7 534	1 344.3	1987	88 12
64	6.40	0.140	0.30	0.71	67	807	51		1 281.2	1988	89 09
64	5.50	0.140	0.42	0.83	70	827	35		1 288.6	1972	89 10
64	3.50	0.090	0.30	0.83	65	805	58	9 115	1 615.7	1982	83 06 - ABAND 87 11
128	2.93	0.150	0.10	0.70	133	829	59	14 970	1 625.3	1971	79 07 - GPP
64	2.78	0.097	0.20	0.80	65	805	58	9 766	1 606.7	1983	88 12 - ABAND 87 05
64	4.00	0.090	0.50	0.69	130	834	66		1 768.9	1987	88 09
64	1.00	0.150	0.40	0.75	98	837	72	15 051	1 924.0	1987	88 07
64	1.70	0.150	0.14	0.71	122	841	64	22 703	2 199.7	1987	88 03
64	4.57	0.111	0.20	0.86	53	876	66	19 370	2 254.0	1974	83 12 - SUSP 80 12
64	6.16	0.200	0.28	0.80	220	745	76	14 755	1 771.0	1977	87 05
268	18.99	0.029	0.30	0.66	160	834	78	19 890	2 253.1	1961	77 12 - GPP
194	7.92	0.042	0.24	0.67	210	829	74	20 340	2 224.7	1956	81 12
8 066	4.57	0.068	0.12	0.68	206	820	79	21 170	2 282.0	1956	87 12 - GPP
64	6.78	0.120	0.25	0.76	102	849	63	20 162	2 032.2	1976	76 12
64	3.00	0.120	0.40	0.70	156	824	82	15 315	2 098.7	1979	81 11
864	3.35	0.120	0.20	0.72	118	834	82	17 410	2 083.6	1957	85 12 - GPP
64	7.90	0.090	0.24	0.53	327	739	121	23 250	2 534.9	1981	89 04
5 859	8.84	0.060	0.12	0.49	336	811	104	25 950	2 627.3	1957	83 12 - GPP
424					243	825	103	25 230	2 619.1	1972	82 12 - GPP
168	12.50	0.050	0.12	0.54							
256	13.28	0.050	0.12	0.54							
219	12.00	0.063	0.20	0.60	220	811	103	25 550	2 746.6	1972	82 09
64	6.30	0.090	0.11	0.58	108	779	104	24 282	2 848.4	1987	87 11 - SUSP 89 02
64	25.06	0.075	0.10	0.58	283	809	107	24 497	2 908.0	1987	88 07

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
WINTERING HILLS								
025-17W4								
VIKING A	1 400.0	0.42		588.0		588.0	468.8	119.2
VIKING P	448.0	0.03		13.4		13.4	8.3	5.1
VIKING Q	41.3	<0.01		0.1		0.1	0.1	
VIKING S	175.0	<0.01		0.8		0.8	0.8	
UPPER MANNVILLE I	1 140.0	0.03		34.2		34.2	9.5	24.7
LOWER MANNVILLE A	2 210.0	0.03		66.3		66.3	48.1	18.2
LOWER MANNVILLE L	148.0	0.05		7.4		7.4	1.2	6.2
LOWER MANNVILLE Q	210.0	<0.01		0.7		0.7	0.7	
LOWER MANNVILLE R	518.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE T	660.0	0.05		33.0		33.0	26.0	7.0
LOWER MANNVILLE V	607.0	0.01		6.1		6.1	1.5	4.6
LOWER MANNVILLE W	445.0	0.10		44.5		44.5	13.6	30.9
LOWER MANNVILLE X	300.0	0.06		18.0		18.0	1.3	16.7
ELLERSLIE A	458.0	<0.01		1.4		1.4	0.8	0.6
WIZARD LAKE 048-27W4								
BASAL QUARTZ A	80.2	<0.01		0.5		0.5	0.5	
BASAL QUARTZ B	87.6	<0.01		0.3		0.3	0.3	
D-2 A	613.0	<0.17		103.5		103.5	103.5	
D-3 A SOLVENT FLOOD	67 000.0	<0.66	0.21	44 200.0	13 600.0	57 800.0	51 673.1	6 126.9
D-3 B	160.0	<0.07		10.8		10.8	10.8	
WOKING 075-04W6								
CHARLIE LAKE A	253.0	0.15		38.0		38.0	6.4	31.6
HALFWAY A	255.0	0.10		25.5		25.5	6.5	19.0
HALFWAY B	214.0	0.10		21.4		21.4	8.1	13.3
WOOD RIVER 043-23W4								
LOWER MANNVILLE A	366.0	0.15		54.9		54.9	38.2	16.7
LOWER MANNVILLE F	33.4	<0.01		0.1		0.1	0.1	
D-2 A	1 250.0	0.15		190.0		190.0	143.6	46.4
D-2 B	1 700.0	0.25		425.0		425.0	92.7	332.3
D-2 C WATER FLOOD	1 150.0	0.35	0.15	403.0	172.0	575.0	405.7	169.3
D-2 D	630.0	0.25		158.0		158.0	46.2	111.8
D-2 E	1 359.0	0.25		340.0		340.0	57.2	282.8
D-2 F	246.0	0.05		12.3		12.3	3.6	8.7
D-3 A	294.0	<0.10		28.6		28.6	28.6	
D-3 B	581.0	0.30		174.0		174.0	31.9	142.1
WORSLEY 087-07W6								
TRIASSIC A	826.0	0.35		289.0		289.0	168.2	120.8
TRIASSIC D	7 417.0	0.25		1 854.0		1 854.0	62.8	1 791.2
D-2 A	390.0	0.30		117.0		117.0	29.3	87.7
D-3 F	188.0	<0.02		3.4		3.4	3.4	
YEKAU LAKE 052-26W4								
LOWER MANNVILLE A	431.0	<0.01		3.4		3.4	3.4	
LOWER MANNVILLE B	260.0	<0.01		0.3		0.3	0.3	
D-2 A	95.7	<0.01		0.1		0.1	0.1	
D-3 A	1 070.0	0.70		749.0		749.0	669.7	79.3
D-3 B	39.7	<0.01		0.3		0.3	0.3	
YOUNGSTOWN 031-09W4								
UPPER MANNVILLE A	90.6	<0.01		0.1		0.1		0.1
ARCS	2 240.0	<0.36		784.0		784.0	582.9	201.1
ARCS B	309.0	0.20		61.8		61.8	4.5	57.3
ZAMA 117-04W6								
SULPHUR POINT A	203.0	<0.02		2.3		2.3	2.3	
SULPHUR POINT B	350.0	<0.01		0.1		0.1	0.1	
SULPHUR POINT C	258.0	<0.02		3.2		3.2	3.2	
SULPHUR POINT D	319.0	0.02		6.4		6.4	2.6	3.8
SULPHUR POINT E	953.0	0.15		143.0		143.0	81.2	51.8
SULPHUR POINT R	78.9	0.10		7.9		7.9	2.5	5.4
SULPHUR POINT T	261.0	0.10		26.1		26.1	1.5	24.6
SULPHUR POINT U	114.0	<0.01		0.1		0.1	0.1	
MUSKEG B	120.0	0.20		24.0		24.0	22.3	1.7
MUSKEG C	207.0	0.20		41.4		41.4	38.6	2.8
MUSKEG F	254.0	<0.10		23.3		23.3	23.3	
MUSKEG G	238.0	<0.08		18.4		18.4	18.4	
MUSKEG H	191.0	0.35		66.9		66.9	56.8	10.1

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
309	4.02	0.231	0.44	0.87	56	825	27	7 860	887.6	1958	64 12
64	6.10	0.220	0.40	0.87	57	825	29	7 830	869.3	1978	85 12
64	0.90	0.150	0.45	0.87	57	835	29	7 540	876.5	1979	83 12 - ABAND 86 12
64	2.10	0.250	0.40	0.87	56	833	56	8 070	858.5	1984	86 12 - SUSP 86 07
475	3.29	0.140	0.37	0.83	64	866	55	7 943	1 222.0	1983	85 12
356	6.58	0.179	0.35	0.81	45	887	48	9 760	1 288.7	1965	83 12 - GPP
64	1.54	0.210	0.15	0.84	66	860	46	9 680	1 255.2	1973	83 12 - SUSP 89 06
64	2.90	0.205	0.32	0.81	58	860	36	9 120	1 330.3	1979	83 12 - ABAND 88 12
64	10.00	0.150	0.35	0.83	66	857	37	11 067	1 322.3	1979	82 12 - SUSP 81 09
64	9.80	0.200	0.35	0.81	45	887	46	9 639	1 271.3	1965	82 07 - GPP
64	6.50	0.250	0.28	0.81	64	894	38	9 552	1 277.3	1983	86 12 - GPP
320	1.53	0.180	0.39	0.83	90	866	39	9 719	1 256.6	1983	84 06 - GPP
128	2.72	0.170	0.39	0.83	72	867	37	9 736	1 258.7	1983	86 11
64	5.74	0.220	0.30	0.81	45	887	46	9 760	1 273.8	1965	83 12 - SUSP 83 03
32	2.13	0.171	0.20	0.85	50	870	49	10 790	1 465.8	1951	61 01 - ABAND 60 04
32	2.44	0.165	0.20	0.84	53	870	49	11 030	1 483.5	1953	59 05 - ABAND 60 05
494	5.24	0.041	0.23	0.75	106	839	71	13 790	1 756.6	1958	82 12 - SUSP 79 12
1 075	85.10	0.096	0.07	0.75	109	834	72	15 650	1 969.0	1951	88 08
54	4.45	0.095	0.07	0.75	109	834	77	15 200	2 108.0	1964	72 05 - ABAND 69 12
64	3.70	0.180	0.25	0.79	80	714	52	13 521	1 537.7	1985	86 05
128	2.62	0.170	0.42	0.77	150	865	65	13 827	1 596.9	1982	84 06 - SUSP 88 11
64	3.20	0.160	0.15	0.77	92	859	48	13 838	1 540.1	1985	86 05
64	5.79	0.170	0.30	0.83	115	847	57	10 650	1 453.1	1956	85 01 - GPP
16	2.00	0.200	0.45	0.95	16	967	41	12 842	1 588.0	1982	83 07 - SUSP 83 01
468	3.93	0.100	0.14	0.79	80	887	60	16 410	1 694.1	1964	84 10
128	27.67	0.080	0.20	0.75	80	887	60	15 820	1 705.7	1963	84 12
187	12.00	0.078	0.10	0.73	133	839	62	15 840	1 768.4	1972	89 12
31	38.40	0.080	0.17	0.79	98	887	60	15 972	1 765.9	1983	84 12
64	34.50	0.090	0.10	0.76	109	841	72	15 937	1 756.9	1987	88 07
128	4.48	0.070	0.16	0.73	133	839	62	15 758	1 758.5	1974	89 12
65	9.14	0.073	0.15	0.80	142	865	61	16 030	1 695.0	1957	73 02 - ABAND 76 05
128	8.44	0.080	0.16	0.80	77	868	61	13 004	1 780.7	1981	85 03
323	2.07	0.190	0.26	0.88	57	844	43	8 480	1 048.8	1961	85 08
1 406	5.43	0.160	0.31	0.88	74	832	41	8 424	1 034.8	1988	89 09
128	5.50	0.090	0.18	0.75	110	823	76	22 195.2	1 195.2	1983	88 08
204	4.57	0.070	0.55	0.64	106	825	81	22 000	2 192.7	1961	88 12 - SUSP 86 04
65	7.01	0.150	0.22	0.81	83	855	54	9 480	1 257.6	1971	84 12 - SUSP 80 02
64	4.10	0.190	0.38	0.84	58	810	56	9 480	1 275.4	1985	86 06 - SUSP 86 02
65	5.79	0.042	0.24	0.80	83	820	60	20 155	1 464.6	1964	64 12 - ABAND 64 07
250	6.58	0.097	0.15	0.79	87	820	63	11 450	1 557.5	1955	86 12
16	7.32	0.060	0.30	0.80	85	849	61	11 270	1 552.7	1967	68 12 - ABAND 68 04
64	1.10	0.220	0.35	0.90	44	884	34	9 157	1 053.8	1979	83 12 - ABAND 88 07
1 131	2.65	0.103	0.22	0.93	18	860	42	8 760	1 132.0	1956	86 12 - GPP
64	4.70	0.130	0.16	0.94	14	839	44	8 774	1 148.7	1987	88 08
65	5.79	0.077	0.16	0.84	64	860	66	13 100	1 370.1	1967	73 02 - SUSP 72 01
65	15.24	0.059	0.30	0.86	52	865	64	12 760	1 484.7	1967	69 05 - SUSP 68 01
19	25.91	0.070	0.13	0.86	73	839	65	12 930	1 339.9	1967	86 12 - SUSP 85 06
65	9.75	0.079	0.20	0.80	64	860	64	13 100	1 332.3	1967	88 07 - GPP
138	15.95	0.064	0.20	0.82	74	834	69	13 030	1 341.1	1967	75 12 - GPP
24	5.49	0.080	0.13	0.86	73	851	65	13 077	1 330.0	1967	88 02 - GPP
64	9.30	0.066	0.17	0.80	76	843	68	13 092	1 356.3	1985	87 03
64	5.00	0.050	0.12	0.81	76	834	68	13 450	1 397.3	1986	89 12 - SUSP 87 03
8	18.00	0.100	0.11	0.94	16	881	66	14 200	1 454.5	1966	78 12 - GPP
13	23.16	0.090	0.13	0.89	35	870	70	14 310	1 469.7	1966	86 12 - GPP
10	63.89	0.060	0.20	0.83	62	860	72	13 650	1 497.2	1967	79 01 - SUSP 78 11
30	19.48	0.060	0.17	0.81	74	860	73	13 800	1 557.2	1967	74 12 - SUSP 74 04
9	47.06	0.064	0.19	0.87	47	834	70	14 450	1 460.6	1967	88 12 - GPP

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
ZAMA 117-04W6 (CONTINUED)								
MUSKEG J	350.0	0.20		70.0		70.0	50.9	19.1
MUSKEG K	120.0	<0.01		0.3		0.3	0.3	
MUSKEG L WATER FLOOD	365.0	0.20	0.07	73.0	25.6	98.6	69.9	28.7
MUSKEG N	98.5	<0.17		16.0		16.0	16.0	
MUSKEG O	286.0	0.20		57.2		57.2	45.2	12.0
MUSKEG P	127.0	<0.12		14.1		14.1	14.1	
MUSKEG R	159.0	0.35		55.6		55.6	26.6	29.0
MUSKEG S	79.5	<0.20		12.5		12.5	12.5	
MUSKEG T	415.0	0.25		104.0		104.0	61.4	42.6
MUSKEG U	268.0	0.30		80.4		80.4	56.5	23.9
MUSKEG V	400.0	0.40		160.0		160.0	93.7	66.3
MUSKEG W	159.0	<0.07		10.8		10.8	10.8	
MUSKEG X	79.5	<0.05		3.8		3.8	3.8	
MUSKEG Y WATER FLOOD	350.0	0.20	0.10	70.0	35.0	105.0	75.7	29.3
MUSKEG AA	79.5	<0.14		10.6		10.6	10.6	
MUSKEG BB	254.0	<0.08		18.5		18.5	18.5	
MUSKEG DD	100.0	<0.20		16.8		16.8	16.8	
MUSKEG EE	114.0	<0.29		32.8		32.8	32.8	
MUSKEG GG	365.0	0.35		128.0		128.0	93.7	34.3
MUSKEG HH	234.0	<0.02		3.2		3.2	3.2	
MUSKEG II	120.0	0.14		16.8		16.8	16.8	
MUSKEG KK	156.0	0.05		7.8		7.8	4.2	3.6
MUSKEG LL	159.0	0.25		40.0		40.0	33.8	6.2
MUSKEG MM	49.1	<0.10		4.8		4.8	4.8	
MUSKEG NN	351.0	0.15		52.7		52.7	48.1	4.6
MUSKEG OO	324.0	<0.01		0.1		0.1	0.1	
MUSKEG PP	50.0	0.20		10.0		10.0	8.1	1.9
MUSKEG QQ	140.0	0.20		28.0		28.0	6.4	21.6
MUSKEG RR	199.0	0.30		59.7		59.7	19.8	39.9
MUSKEG SS	384.0	<0.01		3.5		3.5	3.5	
MUSKEG TT	561.0	<0.01		1.8		1.8	1.8	
MUSKEG UU	225.0	0.20		45.0		45.0	5.7	39.3
MUSKEG VV	161.0	<0.01		0.2		0.2	0.2	
MUSKEG WW	200.0	0.30		60.0		60.0	19.7	40.3
MUSKEG XX	195.0	0.10		19.5		19.5	6.0	13.5
MUSKEG YY	91.2	0.20		18.2		18.2	1.6	16.6
MUSKEG ZZ	64.6	0.25		16.2		16.2	1.3	14.9
KEG RIVER A	874.0	0.39		342.0		342.0	255.5	86.5
KEG RIVER C	318.0	<0.15		45.0		45.0	45.0	
KEG RIVER D	477.0	0.40		191.0		191.0	110.7	80.3
KEG RIVER E	397.0	<0.24		92.4		92.4	92.4	
KEG RIVER F	874.0	0.25		219.0		219.0	170.7	48.3
KEG RIVER G	318.0	0.35		111.0		111.0	94.6	16.4
KEG RIVER H WATER FLOOD	750.0	0.30	0.07	525.0	122.0	647.0	487.3	159.7
KEG RIVER I	192.0	<0.01		0.7		0.7	0.7	
KEG RIVER J	477.0	0.10		47.7		47.7	36.5	11.2
KEG RIVER K	127.0	0.35		44.5		44.5	36.1	8.4
KEG RIVER L	234.0	0.25		58.5		58.5	47.0	11.5
KEG RIVER M	676.0	0.25		169.0		169.0	1.2	167.8
KEG RIVER N WATER FLOOD	360.0	0.25	0.10	90.0	36.0	126.0	111.8	14.2
KEG RIVER O WATER FLOOD	1030.0	0.34	0.06	350.2	61.8	412.0	272.8	139.2
KEG RIVER P WATER FLOOD	286.0	0.35	0.15	100.0	42.9	143.0	95.3	47.7
KEG RIVER R	179.0	0.33		59.1		59.1	52.8	6.3
KEG RIVER S	874.0	<0.11		88.9	ERSO	88.9	88.9	
KEG RIVER T	200.0	0.30		60.0		60.0	46.8	13.2
KEG RIVER U	715.0	0.37		265.0		265.0	194.2	70.8
KEG RIVER V	318.0	<0.08		23.9		23.9	23.9	
KEG RIVER W	191.0	0.30		57.3		57.3	53.4	3.9
KEG RIVER X	306.0	<0.06		16.5		16.5	16.5	
KEG RIVER Y WATER FLOOD	261.0	<0.17	0.05	43.2	13.5	43.2	43.2	
KEG RIVER Z	477.0	0.37		176.0		176.0	171.4	4.6
KEG RIVER AA	191.0	0.35		67.0		67.0	58.1	8.9
KEG RIVER BB	238.0	0.35		83.3		83.3	57.1	26.2
KEG RIVER CC WATER FLOOD	795.0	0.25	0.12	199.0	95.4	294.0	274.8	19.2
KEG RIVER DD	324.0	<0.08		24.4		24.4	24.4	

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
27	36.60	0.050	0.20	0.88	33	881	72	14 000	1 452.4	1967	84 08
65	6.71	0.046	0.25	0.80	80	887	60	13 650	1 407.0	1967	71 01 - ABAND 82 09
12	63.22	0.070	0.18	0.83	59	844	77	15 000	1 513.0	1967	84 12 - SUSP 88 08
5	55.47	0.046	0.14	0.89	37	881	71	14 000	1 508.2	1967	82 12 - SUSP 81 01
11	48.46	0.069	0.09	0.83	54	844	72	15 000	1 508.9	1967	73 12 - GPP
11	28.01	0.056	0.21	0.94	16	892	66	14 070	1 467.8	1967	70 02 - ABAND 85 10
11	39.50	0.055	0.15	0.76	96	834	79	15 860	1 575.3	1967	73 08 - GPP
11	14.33	0.070	0.15	0.83	39	860	71	14 270	1 500.2	1967	68 11 - SUSP 84 10
30	28.10	0.076	0.27	0.90	24	881	68	14 270	1 460.7	1967	84 09 - GPP
7	64.06	0.080	0.15	0.85	48	887	66	14 690	1 479.9	1966	88 12
15	52.10	0.070	0.20	0.90	29	881	69	14 281	1 470.7	1966	82 10 - GPP
18	20.88	0.060	0.12	0.81	78	855	71	14 380	1 562.7	1967	73 10 - ABAND 85 02
12	10.36	0.090	0.14	0.82	67	855	71	14 100	1 530.1	1968	70 01 - SUSP 72 01
42	13.45	0.080	0.10	0.86	45	855	70	14 820	1 503.9	1968	82 07
9	24.14	0.058	0.25	0.85	57	876	71	13 340	1 490.6	1968	74 11 - SUSP 76 02
31	13.90	0.075	0.12	0.88	30	860	71	13 400	1 468.5	1968	75 12 - SUSP 74 01
7	25.00	0.073	0.13	0.90	25	876	67	13 870	1 446.0	1968	81 09 - ABAND 80 07
3	45.30	0.108	0.09	0.85	42	860	69	14 530	1 480.1	1968	84 06 - ABAND 88 01
7	64.95	0.100	0.08	0.84	62	887	71	13 120	1 522.2	1969	73 08 - GPP
16	38.10	0.054	0.20	0.88	41	881	70	12 700	1 502.7	1968	73 02 - ABAND 82 09
9	24.50	0.079	0.15	0.81	74	860	72	13 870	1 507.2	1967	78 12 - SUSP 83 09
17	21.50	0.060	0.19	0.88	32	881	72	14 290	1 493.8	1969	86 12 - GPP
3	58.20	0.115	0.10	0.88	30	870	67	13 480	1 454.8	1969	84 12 - GPP
13	27.71	0.024	0.30	0.79	82	855	71	13 220	1 463.6	1971	74 12 - SUSP 74 04
25	24.99	0.077	0.11	0.83	56	855	67	14 940	1 516.7	1972	86 12 - GPP
65	24.08	0.036	0.32	0.85	44	844	36	17 960	1 553.9	1973	74 05 - ABAND 73 09
6	15.90	0.070	0.10	0.83	91	837	80	13 676	1 536.8	1982	84 12 - GPP
31	8.24	0.070	0.10	0.87	37	839	74	12 953	1 509.2	1983	85 04 - GPP
64	8.30	0.060	0.18	0.76	95	834	62	18 035	1 502.5	1983	84 01 - GPP
64	12.00	0.070	0.14	0.83	54	844	79	13 690	1 564.0	1983	86 12 - SUSP 85 04
64	16.00	0.070	0.11	0.88	35	882	71	17 953	1 499.3	1984	88 12 - SUSP 85 09
39	15.61	0.050	0.16	0.88	35	878	73	14 663	1 469.8	1984	86 09
64	5.60	0.060	0.10	0.83	60	837	77	15 402	1 578.4	1984	88 12 - ABAND 85 10
36	10.73	0.070	0.15	0.87	41	854	71	14 624	1 571.3	1985	87 02
64	8.35	0.055	0.19	0.82	59	817	66	18 557	1 526.8	1986	88 08 - GPP
64	2.00	0.090	0.10	0.88	37	870	29	14 774	1 427.5	1987	87 12 - SUSP 88 07
64	1.50	0.090	0.14	0.87	42	882	70	13 472	1 411.4	1968	89 06
25	63.12	0.071	0.11	0.86	46	876	68	14 340	1 460.0	1966	70 06 - GPP
7	82.30	0.077	0.16	0.87	50	870	69	14 760	1 482.9	1967	83 12 - ABAND 80 04
8	114.30	0.074	0.16	0.83	60	849	72	15 130	1 563.3	1967	82 12 - GPP
17	47.46	0.070	0.12	0.80	71	834	79	14 790	1 512.1	1967	86 12 - SUSP 85 10
32	50.90	0.071	0.12	0.85	52	849	71	14 480	1 492.9	1967	82 12 - SUSP 87 10
17	32.92	0.085	0.24	0.88	35	870	71	14 310	1 464.3	1967	75 06 - GPP
141	42.06	0.047	0.28	0.87	36	865	74	14 200	1 460.9	1966	74 09 - GPP
22	28.22	0.050	0.25	0.83	59	865	75	14 450	1 509.7	1967	68 05 - ABAND 89 03
7	91.20	0.100	0.10	0.83	66	865	72	13 952	1 549.6	1967	88 12
17	23.40	0.050	0.24	0.84	54	865	71	13 760	1 421.9	1966	81 12 - GPP
20	33.53	0.050	0.20	0.86	46	865	72	13 800	1 444.8	1967	83 12 - GPP
130	25.60	0.036	0.32	0.83	48	865	71	14 070	1 488.0	1967	89 01
18	52.56	0.058	0.20	0.82	64	865	71	13 900	1 500.2	1966	86 12 - GPP
35	47.88	0.087	0.19	0.88	35	860	71	14 820	1 497.8	1967	82 12 - GPP
5	104.21	0.074	0.17	0.85	54	855	68	14 620	1 523.1	1967	75 12 - GPP
10	24.23	0.100	0.17	0.89	30	876	68	14 200	1 449.6	1967	88 12 - GPP
17	90.09	0.079	0.16	0.86	42	860	69	14 890	1 496.6	1967	88 12 - SUSP 86 06
15	30.00	0.060	0.15	0.87	38	870	70	14 690	1 464.6	1967	85 12 - GPP
25	58.00	0.074	0.18	0.81	65	834	77	15 030	1 527.0	1967	70 06 - GPP
64	30.70	0.030	0.35	0.83	63	865	71	13 790	1 440.2	1967	83 12 - ABAND 87 02
28	23.79	0.046	0.24	0.82	69	876	66	13 760	1 434.1	1967	83 12 - GPP
18	34.14	0.080	0.25	0.83	33	881	69	13 690	1 433.2	1967	84 09 - SUSP 87 09
12	36.27	0.081	0.12	0.84	62	865	61	13 870	1 446.9	1967	75 08 - SUSP 84 06
11	74.83	0.085	0.12	0.81	73	855	72	14 520	1 512.4	1967	82 12 - SUSP 88 07
7	53.07	0.070	0.18	0.86	43	870	68	14 030	1 495.7	1967	89 07 - GPP
33	30.30	0.040	0.30	0.85	76	865	72	13 760	1 553.0	1967	83 12 - GPP
13	95.10	0.087	0.12	0.86	45	860	76	14 890	1 565.5	1967	82 12 - GPP
15	48.13	0.061	0.20	0.90	35	887	63	13 810	1 419.5	1967	86 12 - ABAND 89 03

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	103m3	frac	frac	103m3	103m3	103m3	103m3	103m3
ZAMA 117-04W6 (CONTINUED)								
KEG RIVER EE	1 030.0	0.25		258.0		258.0	220.1	37.9
KEG RIVER FF	1 270.0	0.30		381.0		381.0	328.7	52.3
KEG RIVER GG	953.0	0.08	0.03	76.2	28.6	105.0	99.8	5.2
WATER FLOOD								
KEG RIVER HH	155.0	0.25		38.8		38.8	33.9	4.9
KEG RIVER II	280.0	0.10		28.0		28.0	14.7	13.3
KEG RIVER JJ	110.0	0.30		33.0		33.0	30.1	2.9
KEG RIVER KK	176.0	0.25	0.15	44.0	26.4	70.4	47.7	22.7
WATER FLOOD								
KEG RIVER LL	150.0	0.35		52.5		52.5	45.1	7.4
KEG RIVER MM	345.0	<0.01		2.6		2.6	2.6	
KEG RIVER NN	636.0	0.25		159.0		159.0	124.1	34.9
KEG RIVER OO	148.0	0.40		59.2		59.2	49.2	10.0
KEG RIVER PP	763.0	0.42		321.0		321.0	184.6	136.4
KEG RIVER QQ	350.0	0.30		105.0		105.0	78.5	26.5
KEG RIVER RR	795.0	0.08		63.6		63.6	59.2	4.4
KEG RIVER SS	310.0	0.22		68.0		68.0	65.8	2.2
KEG RIVER TT	400.0	0.25	0.10	100.0	40.0	140.0	121.8	18.2
WATER FLOOD								
KEG RIVER UU	141.0	<0.15		20.5		20.5	20.5	
KEG RIVER VV	1 350.0	0.41		555.0		555.0	378.0	177.0
KEG RIVER WW	318.0	0.20		63.6		63.6	56.7	6.9
KEG RIVER XX	477.0	<0.19		90.8		90.8	90.8	
KEG RIVER YY	663.0	0.25	0.05	165.0	33.2	198.0	55.3	142.7
WATER FLOOD								
KEG RIVER ZZ	238.0	0.35		83.4		83.4	58.1	25.3
KEG RIVER AAA	556.0	0.35		195.0		195.0	158.7	36.3
KEG RIVER BBB	207.0	0.34	0.12	70.2	24.8	95.0	64.7	30.3
WATER FLOOD								
KEG RIVER CCC	477.0	<0.01		2.8		2.8	2.8	
KEG RIVER DDD	318.0	<0.21		64.2		64.2	64.2	
KEG RIVER EEE	318.0	0.12		38.1		38.1	32.0	6.1
KEG RIVER FFF	159.0	0.25		42.3		42.3	23.3	19.0
KEG RIVER GGG	64.2	<0.19		12.1		12.1	12.1	
KEG RIVER HHH	318.0	<0.13		38.4		38.4	38.4	
KEG RIVER III	230.0	0.30		69.0		69.0	58.1	10.9
KEG RIVER JJJ	477.0	0.36		172.0		172.0	158.5	13.5
KEG RIVER KKK	397.0	0.20		79.4		79.4	70.6	8.8
KEG RIVER LLL	165.0	0.20		33.0		33.0	15.3	17.7
KEG RIVER MMM	500.0	0.30		150.0		150.0	132.3	17.7
KEG RIVER NNN	588.0	0.35		207.0		207.0	146.7	60.3
KEG RIVER OOO	524.0	<0.09		45.7		45.7	45.7	
KEG RIVER PPP	213.0	0.25		53.2		53.2	38.5	14.7
KEG RIVER QQQ	397.0	0.15		59.6		59.6	42.3	17.3
KEG RIVER RRR	636.0	0.22		140.0		140.0	125.7	14.3
KEG RIVER SSS	79.5	<0.22		17.3		17.3	17.3	
KEG RIVER TTT	127.0	0.35	0.12	44.5	15.3	59.8	48.3	11.5
WATER FLOOD								
KEG RIVER VVV	443.0	0.15		66.4	ERSO	66.4	47.3	19.1
KEG RIVER WWW	393.0	0.10		39.3		39.3	26.5	12.8
KEG RIVER XXX	477.0	<0.08		34.8		34.8	34.8	
KEG RIVER YYY	337.0	0.35		118.0		118.0	89.7	28.3
KEG RIVER ZZZ	238.0	<0.13		29.2		29.2	29.2	
KEG RIVER A2A	423.0	0.40		169.0		169.0	108.9	60.1
KEG RIVER B2B	795.0	0.35		278.0		278.0	208.1	69.9
KEG RIVER C2C	165.0	<0.21		34.1		34.1	34.1	
KEG RIVER E2E	313.0	0.30		93.9		93.9	60.8	33.1
KEG RIVER F2F	310.0	<0.07		21.4		21.4	21.4	
KEG RIVER G2G	960.0	<0.13		122.0		122.0	122.0	
KEG RIVER H2H	305.0	<0.04		10.3		10.3	10.3	
KEG RIVER I2I	197.0	<0.24		46.1		46.1	46.1	
KEG RIVER J2J	286.0	0.30		85.8		85.8	67.1	18.7
KEG RIVER K2K	477.0	<0.02		6.5		6.5	6.5	
KEG RIVER L2L	143.0	<0.10		13.7		13.7	13.7	
KEG RIVER M2M	354.0	0.35		124.0		124.0	98.2	25.8
KEG RIVER N2N	461.0	0.30		138.0		138.0	133.1	4.9
KEG RIVER O2O	604.0	0.30		181.0		181.0	49.5	131.5
KEG RIVER P2P	350.0	0.30		105.0		105.0	86.9	18.1
KEG RIVER Q2Q	364.0	<0.12		42.7		42.7	42.7	
KEG RIVER R2R	255.0	0.30		76.5		76.5	17.9	58.6
KEG RIVER S2S	350.0	0.25		87.5		87.5	84.3	3.2

LIGHT-MEDIUM CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
33	56.11	0.070	0.12	0.89	30	865	69	14 450	1 460.9	1967	82 12 - GPP
28	87.17	0.071	0.11	0.83	58	839	78	15 170	1 529.2	1967	77 10 - GPP
55	41.92	0.060	0.17	0.83	63	865	73	14 380	1 485.6	1967	83 12 - GPP
21	42.43	0.030	0.30	0.83	60	860	71	13 790	1 469.7	1967	86 12 - GPP
22	25.30	0.074	0.15	0.80	74	849	78	13 930	1 561.2	1967	85 12 - GPP
15	29.30	0.042	0.30	0.85	35	865	71	13 790	1 452.4	1967	85 07 - GPP
4	86.87	0.065	0.11	0.87	45	865	71	14 510	1 538.3	1967	82 12 - GPP
7	25.32	0.100	0.08	0.92	26	881	64	14 030	1 428.0	1967	86 12 - GPP
64	6.10	0.140	0.11	0.71	156	825	81	14 910	1 524.0	1967	85 12 - SUSP 84 02
20	36.97	0.120	0.08	0.77	88	829	76	15 130	1 553.0	1967	82 12 - GPP
16	46.33	0.043	0.25	0.62	215	829	76	15 130	1 555.1	1967	85 08 - GPP
15	97.11	0.074	0.10	0.81	72	829	80	15 410	1 550.5	1967	70 06 - GPP
13	53.64	0.073	0.11	0.80	72	829	78	14 820	1 536.5	1967	75 12 - GPP
57	31.39	0.063	0.15	0.83	64	865	71	13 510	1 451.5	1967	83 12 - GPP
5	102.40	0.080	0.11	0.85	53	855	72	14 940	1 528.6	1967	88 07 - GPP
23	43.30	0.055	0.14	0.85	49	865	73	13 790	1 479.2	1967	87 08 - GPP
21	28.74	0.039	0.30	0.84	59	865	70	13 790	1 598.1	1967	86 12 - SUSP 85 07
26	91.74	0.075	0.10	0.83	58	855	77	14 930	1 509.4	1967	70 06 - GPP
16	45.11	0.055	0.13	0.90	32	898	63	14 170	1 443.5	1967	84 12 - GPP
13	67.30	0.071	0.11	0.84	71	860	71	14 790	1 501.4	1967	82 12 - ABAND 88 06
26	60.96	0.060	0.15	0.81	71	844	71	14 620	1 521.6	1967	70 02 - GPP - I.S. NO. 9
24	20.95	0.110	0.12	0.49	331	811	77	15 370	1 551.1	1967	83 12 - SUSP 89 02
10	108.81	0.074	0.10	0.79	74	834	79	14 960	1 583.1	1967	75 12 - GPP
3	91.00	0.105	0.13	0.83	57	855	80	14 690	1 565.8	1967	75 07 - GPP
72	17.37	0.065	0.28	0.81	65	860	76	14 240	1 573.4	1967	70 09 - WTR INJ 69 01
9	58.83	0.076	0.15	0.90	33	881	67	14 170	1 468.2	1967	88 12 - SUSP 86 01
21	36.27	0.064	0.22	0.85	52	865	70	13 380	1 443.8	1967	75 12 - GPP
6	47.64	0.085	0.20	0.87	35	865	71	13 650	1 454.7	1967	83 12 - GPP
3	82.20	0.045	0.35	0.89	45	860	83	14 340	1 524.6	1967	69 01 - SUSP 85 12
10	37.80	0.115	0.10	0.83	59	860	72	13 550	1 470.8	1967	82 12 - SUSP 82 03
10	43.20	0.080	0.25	0.89	38	881	64	14 000	1 427.7	1967	88 12 - GPP
21	45.14	0.070	0.20	0.88	30	865	72	14 550	1 451.5	1967	70 06 - GPP
7	95.90	0.080	0.11	0.83	45	855	78	14 690	1 558.7	1967	85 12 - GPP
17	36.27	0.046	0.30	0.83	62	865	69	13 200	1 471.6	1967	76 01 - GPP
12	86.52	0.070	0.20	0.86	47	865	69	14 890	1 484.4	1967	89 12 - GPP
17	69.49	0.073	0.15	0.80	72	844	80	15 690	1 532.2	1967	69 01 - GPP
19	50.35	0.074	0.19	0.93	28	881	67	13 930	1 453.9	1967	82 12 - ABAND 88 06
19	42.15	0.040	0.20	0.83	60	860	71	13 270	1 465.8	1967	70 02 - GPP
34	49.71	0.040	0.30	0.85	49	865	71	13 170	1 466.4	1967	82 12 - GPP
20	70.26	0.077	0.17	0.70	145	829	73	15 200	1 548.7	1967	88 12 - GPP
6	26.60	0.080	0.25	0.83	41	860	73	14 650	1 547.2	1967	86 12 - SUSP 85 12
4	50.70	0.080	0.10	0.87	43	865	73	14 310	1 516.7	1967	69 01 - GPP
23	45.45	0.063	0.19	0.83	67	855	71	13 310	1 464.7	1967	70 02 - GPP
17	37.73	0.080	0.15	0.90	34	887	63	13 890	1 417.3	1968	89 12 - SUSP 85 05
21	57.30	0.059	0.23	0.87	42	881	67	13 580	1 460.6	1968	86 12 - SUSP 85 05
15	42.03	0.074	0.16	0.86	43	876	71	13 450	1 449.9	1968	88 12 - SUSP 85 05
20	22.80	0.070	0.17	0.90	28	881	63	14 170	1 426.9	1968	86 12 - ABAND 88 06
35	25.09	0.060	0.20	0.81	74	849	71	13 450	1 462.0	1968	89 12 - SUSP 85 05
17	53.04	0.120	0.15	0.85	56	855	68	14 640	1 490.2	1968	69 04 - GPP
17	40.87	0.040	0.25	0.81	71	860	71	12 820	1 474.6	1968	84 12 - SUSP 83 09
16	30.48	0.085	0.17	0.90	32	904	63	13 670	1 417.3	1968	70 02 - GPP
23	36.79	0.055	0.24	0.86	46	865	68	13 650	1 443.5	1968	74 12 - SUSP 74 09
28	57.42	0.085	0.13	0.81	71	844	76	14 190	1 510.3	1968	83 07 - SUSP 85 03
15	38.10	0.078	0.17	0.85	52	865	70	13 580	1 448.1	1968	74 12 - SUSP 74 10
18	27.10	0.065	0.20	0.77	95	825	80	14 760	1 557.2	1968	70 02 - SUSP 85 10
14	31.39	0.087	0.14	0.86	47	870	69	14 450	1 487.4	1968	69 03 - GPP
63	19.57	0.054	0.20	0.89	37	892	61	13 650	1 413.1	1968	73 02 - SUSP 72 04
16	38.10	0.040	0.30	0.83	66	865	68	12 650	1 453.0	1968	78 10 - SUSP 75 11
13	47.64	0.075	0.15	0.90	38	881	61	13 930	1 436.8	1968	70 02 - GPP
12	57.82	0.094	0.15	0.85	59	860	68	14 380	1 459.4	1968	70 02 - GPP
15	59.30	0.100	0.14	0.79	84	870	73	14 590	1 515.2	1968	89 12 - GPP
11	47.85	0.094	0.16	0.88	38	865	69	14 000	1 449.6	1968	71 07 - GPP
17	70.90	0.045	0.20	0.82	66	860	74	11 650	1 492.9	1968	82 12 - SUSP 80 10
17	29.80	0.080	0.12	0.72	115	825	66	14 960	1 560.9	1968	84 09 - SUSP 80 10
6	98.70	0.080	0.11	0.83	50	870	77	14 300	1 537.1	1968	86 12 - GPP

TABLE 2-4

FIELD POOL	1	3		5			6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES	
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL			
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	
ZAMA 117-04W6 (CONTINUED)									
KEG RIVER T2T	91.9	0.25		23.0		23.0	18.1	4.9	
KEG RIVER U2U	429.0	0.20		85.8		85.8	76.3	9.5	
KEG RIVER V2V	124.0	0.20		24.8		24.8	11.1	13.7	
KEG RIVER W2W	165.0	0.25		41.3		41.3	30.7	10.6	
KEG RIVER X2X	547.0	0.32	0.23	175.0	126.0	301.0	251.3	49.7	
WATER FLOOD									
KEG RIVER Y2Y	79.5	<0.02		1.0		1.0	1.0		
KEG RIVER Z2Z	477.0	0.20		95.4		95.4	79.1	16.3	
KEG RIVER A3A	318.0	<0.12		37.8		37.8	37.8		
KEG RIVER B3B	251.0	<0.06		14.3		14.3	14.3		
KEG RIVER C3C	111.0	<0.23		25.3		25.3	25.3		
KEG RIVER D3D	257.0	0.30		77.2		77.2	66.0	11.2	
KEG RIVER F3F	420.0	0.12		50.4		50.4	42.9	7.5	
KEG RIVER G3G	106.0	0.15		15.9		15.9	10.9	5.0	
KEG RIVER H3H	218.0	0.40		87.2		87.2	40.5	46.7	
KEG RIVER I3I TOTAL	636.0			128.0	25.1	153.0	129.3	23.7	
PRIMARY AREA	134.0	0.20		26.8		26.8			
WATER FLOOD AREA	502.0	0.20	0.05	101.0	25.1	126.0			
KEG RIVER J3J	222.0	0.15		33.3		33.3	27.4	5.9	
KEG RIVER K3K	207.0	0.20	0.10	41.3	20.7	62.0	59.1	2.9	
WATER FLOOD									
KEG RIVER L3L	159.0	0.20	0.15	31.8	23.9	55.7	48.6	7.1	
WATER FLOOD									
KEG RIVER M3M	318.0	0.25		79.5		79.5	10.3	69.2	
KEG RIVER N3N	302.0	<0.24		70.5		70.5	70.5		
KEG RIVER O3O	240.0	<0.06		13.9		13.9	13.9		
KEG RIVER P3P	477.0	<0.17		78.3		78.3	78.3		
KEG RIVER Q3Q	267.0	<0.12		30.5		30.5	30.5		
KEG RIVER R3R	306.0	0.35		107.0		107.0	95.7	11.3	
KEG RIVER S3S	222.0	0.35		77.7		77.7	71.3	6.4	
KEG RIVER T3T	242.0	0.25		60.5		60.5	19.6	40.9	
KEG RIVER U3U	20.5	<0.26		5.3		5.3	5.3		
KEG RIVER W3W	524.0	0.26	0.09	136.0	47.2	183.0	154.0	29.0	
WATER FLOOD									
KEG RIVER X3X	253.0	<0.02		3.9		3.9	3.9		
KEG RIVER Y3Y	238.0	<0.06		12.2		12.2	12.2		
KEG RIVER Z3Z	477.0	0.35		167.0		167.0	139.4	27.6	
KEG RIVER A4A	47.7	<0.01		0.4		0.4	0.4		
KEG RIVER B4B	63.6	<0.18		11.3		11.3	11.3		
KEG RIVER C4C	323.0	<0.13		41.0		41.0	41.0		
KEG RIVER D4D	140.0	<0.11		15.0		15.0	15.0		
KEG RIVER E4E	415.0	0.12		49.8		49.8	42.4	7.4	
KEG RIVER F4F	79.5	0.21		16.7		16.7	16.7		
KEG RIVER G4G	370.0	0.15		55.5		55.5	32.0	23.5	
KEG RIVER H4H	381.0	0.15		57.2		57.2	49.8	7.4	
KEG RIVER I4I	222.0	0.20		44.4		44.4	40.6	3.8	
KEG RIVER J4J	397.0	0.05		19.9		19.9	10.8	9.1	
KEG RIVER K4K	159.0	0.20		31.8		31.8	28.7	3.1	
KEG RIVER L4L	650.0	0.40		260.0		260.0	171.0	89.0	
KEG RIVER M4M	210.0	<0.07		13.9		13.9	13.9		
KEG RIVER N4N	191.0	0.20		38.2		38.2	30.4	7.8	
KEG RIVER O4O	143.0	0.14		20.0		20.0	18.3	1.7	
KEG RIVER P4P	159.0	0.35		55.6		55.6	47.1	8.5	
KEG RIVER Q4Q	143.0	0.20		28.6		28.6	21.5	7.1	
KEG RIVER R4R	267.0	0.07		18.7		18.7	18.7		
KEG RIVER S4S	270.0	0.08		21.6		21.6	20.1	1.5	
KEG RIVER T4T	318.0	0.40		127.0		127.0	104.8	22.2	
KEG RIVER U4U	320.0	0.30		96.0		96.0	87.0	9.0	
KEG RIVER V4V	95.3	<0.12		10.7		10.7	10.7		
KEG RIVER W4W	95.3	0.30		28.6		28.6	23.3	5.3	
KEG RIVER X4X	424.0	0.15		63.6		63.6	38.4	25.2	
KEG RIVER Y4Y	26.8	<0.27		7.0		7.0	7.0		
KEG RIVER Z4Z	232.0	<0.09		20.3		20.3	20.3		
KEG RIVER A5A	874.0	0.20		175.0		175.0	122.5	52.5	
KEG RIVER B5B	159.0	<0.13		20.1		20.1	20.1		
KEG RIVER C5C	259.0	0.40		104.0		104.0	59.4	44.6	
KEG RIVER D5D	300.0	0.35		105.0		105.0	44.3	60.7	
KEG RIVER E5E	425.0	<0.01		0.1		0.1	0.1		
KEG RIVER F5F	181.0	0.20		36.2		36.2	10.7	25.5	
KEG RIVER G5G	350.0	0.10		35.0		35.0	18.6	16.4	
KEG RIVER H5H	267.0	0.03		8.0		8.0	3.4	4.6	

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
7	22.34	0.075	0.11	0.88	35	867	67	13 280	1 474.6	1968	83 12
10	53.77	0.105	0.13	0.90	26	876	68	13 880	1 451.5	1968	79 06
13	24.90	0.060	0.25	0.85	55	865	71	13 130	1 434.4	1968	85 04 - GPP
15	32.95	0.054	0.25	0.83	59	865	70	11 510	1 463.3	1968	84 12 - GPP
34	31.21	0.075	0.13	0.80	78	844	76	12 580	1 494.1	1968	84 12 - GPP - I.S. NO. 9
5	23.73	0.110	0.30	0.87	48	860	71	11 910	1 521.9	1968	69 11 - SUSP 69 10
17	30.23	0.120	0.15	0.91	26	887	64	13 490	1 428.6	1968	83 12
35	29.50	0.045	0.20	0.86	53	865	72	13 530	1 454.2	1967	82 12 - SUSP 84 08
17	36.27	0.060	0.20	0.85	52	865	70	12 310	1 454.5	1968	74 12 - ABAND 79 01
8	25.27	0.078	0.20	0.88	35	887	71	14 210	1 498.7	1968	83 12 - SUSP 81 01
16	35.17	0.065	0.15	0.84	59	860	74	14 020	1 459.4	1969	70 09 - GPP
15	28.83	0.120	0.10	0.90	39	898	61	12 940	1 400.9	1969	87 12 - GPP
11	16.95	0.075	0.15	0.90	34	887	63	13 500	1 406.7	1969	86 12 - GPP
5	91.74	0.070	0.21	0.86	46	865	71	15 090	1 535.0	1969	84 09 - GPP
117					63	865	72	13 000	1 433.2	1968	88 01 - GPP
64	22.47	0.017	0.34	0.83							
53	23.77	0.060	0.20	0.83							
8	31.21	0.122	0.13	0.83	63	860	71	13 670	1 456.3	1967	83 12
8	43.74	0.079	0.12	0.84	61	865	71	13 700	1 454.5	1967	75 08 - GPP
12	37.83	0.052	0.18	0.84	55	865	71	13 330	1 442.9	1967	86 12 - GPP
19	24.78	0.090	0.12	0.87	35	865	71	13 460	1 435.9	1969	70 01
10	58.30	0.071	0.11	0.82	62	865	69	13 460	1 501.7	1969	84 12 - SUSP 84 12
9	55.41	0.079	0.25	0.82	71	855	68	13 410	1 476.8	1968	77 04 - SUSP 77 01
10	80.13	0.092	0.18	0.78	78	855	72	14 620	1 583.1	1968	88 12 - SUSP 86 03
16	42.98	0.065	0.27	0.83	57	870	71	12 350	1 435.6	1969	89 12 - SUSP 87 08
12	44.10	0.080	0.15	0.85	56	860	67	13 800	1 451.5	1969	87 12
11	23.16	0.112	0.12	0.86	52	887	77	13 650	1 481.3	1969	83 12 - GPP
14	65.53	0.045	0.23	0.76	94	834	73	14 910	1 533.8	1969	89 09
1	35.90	0.079	0.16	0.86	46	860	71	9 360	1 500.2	1969	73 02 - SUSP 72 05
7	73.00	0.139	0.09	0.78	85	855	69	13 400	1 520.3	1969	82 12 - GPP
6	65.84	0.092	0.17	0.84	60	854	71	8 560	1 524.0	1969	86 12 - SUSP 85 12
12	50.17	0.055	0.20	0.89	30	881	70	13 380	1 473.1	1969	74 12 - SUSP 74 07
15	58.95	0.086	0.15	0.76	94	829	79	15 010	1 522.5	1969	86 12 - GPP
11	9.69	0.068	0.15	0.81	60	855	71	13 110	1 639.5	1969	70 10 - SUSP 70 01
5	26.97	0.077	0.25	0.84	58	855	77	15 180	1 639.5	1969	78 07 - ABAND 85 07
14	44.84	0.080	0.17	0.79	89	860	71	13 450	1 510.9	1969	82 12 - SUSP 83 04
13	32.34	0.050	0.20	0.81	69	860	69	12 820	1 477.4	1968	70 02 - ABAND 72 05
20	30.48	0.090	0.15	0.88	35	870	69	11 420	1 449.6	1970	86 06 - SUSP 88 10
19	23.16	0.030	0.30	0.86	46	865	72	13 730	1 448.1	1967	89 12 - SUSP 87 05
7	68.12	0.100	0.10	0.88	35	860	67	12 470	1 469.7	1971	81 12 - GPP
14	45.42	0.084	0.18	0.90	29	898	59	12 910	1 428.3	1971	86 12 - GPP
12	41.45	0.065	0.22	0.90	38	887	62	13 370	1 414.9	1971	88 12 - GPP
10	44.50	0.110	0.09	0.89	41	898	62	12 410	1 424.6	1971	76 06
12	31.09	0.060	0.18	0.89	41	898	62	12 240	1 420.4	1971	82 12 - GPP
42	30.20	0.069	0.12	0.84	61	855	70	13 220	1 525.8	1971	88 08
11	56.28	0.061	0.33	0.83	64	855	81	13 510	1 547.8	1971	81 09 - ABAND 87 11
7	39.81	0.086	0.15	0.90	35	881	61	9 410	1 423.4	1971	82 12 - GPP
9	26.67	0.075	0.12	0.90	35	898	61	23 310	1 416.4	1971	83 12
6	39.35	0.085	0.13	0.90	35	892	61	13 820	1 414.6	1971	72 09
10	22.82	0.080	0.12	0.89	36	887	63	13 510	1 420.7	1971	89 12 - GPP
9	36.60	0.100	0.10	0.90	35	904	61	13 450	1 419.1	1971	82 12 - SUSP 80 03
10	31.09	0.120	0.17	0.90	36	887	62	21 860	1 418.5	1972	87 12 - GPP
7	88.70	0.075	0.11	0.78	83	829	77	15 750	1 547.5	1971	75 05 - GPP
13	54.80	0.080	0.11	0.84	59	855	69	12 460	1 486.2	1972	89 08
4	73.75	0.047	0.21	0.87	47	849	72	14 210	1 510.9	1972	81 08 - SUSP 82 07
3	42.95	0.100	0.15	0.87	47	876	71	14 650	1 481.6	1972	75 04 - GPP
12	52.55	0.090	0.10	0.85	60	865	45	7 490	1 519.7	1972	82 12
2	39.32	0.050	0.18	0.83	58	829	74	15 880	1 561.2	1972	89 12 - SUSP 87 09
25	24.99	0.055	0.12	0.78	89	834	72	13 610	1 550.5	1971	73 11 - SUSP 85 02
15	77.54	0.099	0.08	0.85	53	876	69	12 270	1 454.5	1973	86 12 - GPP
7	55.47	0.065	0.16	0.78	89	811	82	14 710	1 553.0	1973	86 12 - SUSP 86 01
7	44.81	0.105	0.09	0.88	27	876	69	12 819	1 444.6	1974	75 04
11	52.80	0.075	0.14	0.80	71	825	88	14 890	1 581.3	1974	83 06
64	17.32	0.060	0.23	0.83	69	860	56	13 540	1 467.0	1978	82 12 - SUSP 79 04
64	9.00	0.050	0.25	0.84	50	861	60	13 550	1 608.5	1978	79 08 - GPP
40	20.50	0.060	0.20	0.89	52	879	80	13 445	1 451.3	1981	86 12 - GPP
8	75.50	0.070	0.20	0.79	76	855	66	13 509	1 487.1	1981	88 12 - GPP

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
ZAMA 117-04W6 (CONTINUED)								
KEG RIVER ISI	322.0	0.20		64.4		64.4	47.6	16.8
KEG RIVER JSJ	340.0	0.10		34.0		34.0	12.8	21.2
KEG RIVER KSK	612.0	<0.01		4.2		4.2	4.2	
KEG RIVER LSL	285.0	0.20		57.0		57.0	27.0	30.0
KEG RIVER MSM	223.0	<0.04		8.6		8.6	8.6	
KEG RIVER NSN	233.0	0.25		58.3		58.3	21.3	37.0
KEG RIVER OSO	206.0	0.15		30.9		30.9	3.8	27.1
KEG RIVER PSP	931.0	0.10		93.1		93.1	34.5	58.6
KEG RIVER QSO	411.0	0.10		41.1		41.1	9.3	31.8
KEG RIVER RSR	485.0	<0.01		4.4		4.4	4.4	
KEG RIVER SSS	317.0	0.25		79.3		79.3	12.1	67.2
KEG RIVER TST	694.0	<0.01		1.5		1.5	1.5	
KEG RIVER USU	162.0	0.20		32.4		32.4	11.2	21.2
KEG RIVER VSV	† 580.0	<0.01		6.9		6.9	6.9	
KEG RIVER WSW	260.0	0.15		39.0		39.0	13.5	25.5
KEG RIVER XSX	150.0	0.25		37.5		37.5	16.2	21.3
KEG RIVER YSY	300.0	0.30		90.0		90.0	30.8	59.2
KEG RIVER ZSZ	283.0	0.30		84.9		84.9	24.3	60.6
KEG RIVER A6A	215.0	0.30		64.5		64.5	22.2	42.3
KEG RIVER B6B	85.1	<0.04		3.1		3.1	3.1	
KEG RIVER C6C	186.0	<0.02		3.1		3.1	3.1	
KEG RIVER D6D	236.0	<0.01		1.9		1.9	1.9	
KEG RIVER E6E	350.0	0.30		105.0		105.0	17.7	87.3
KEG RIVER F6F	271.0	0.25		67.8		67.8	19.2	48.6
KEG RIVER G6G	190.0	0.25		47.5		47.5	8.1	39.4
KEG RIVER H6H	301.0	<0.01		2.1		2.1	2.1	
KEG RIVER I6I	730.0	0.05		36.5		36.5	17.3	19.2
KEG RIVER J6J	150.0	<0.03		3.2		3.2	3.2	
KEG RIVER K6K	140.0	<0.03		4.1		4.1	4.1	
KEG RIVER L6L	117.0	0.15		17.6		17.6	1.2	16.4
KEG RIVER N6N	500.0	0.05		25.0		25.0	16.3	8.7
KEG RIVER O6O	250.0	0.05		12.5		12.5	7.5	5.0
KEG RIVER P6P	455.0	0.25		114.0		114.0	15.8	98.2
KEG RIVER Q6Q	251.0	0.25	0.10	62.8	25.1	87.9	84.3	3.6
WATER FLOOD								
KEG RIVER R6R	130.0	0.25		33.0		33.0	14.4	18.6
KEG RIVER S6S	400.0	0.20		80.0		80.0	13.8	66.2
KEG RIVER T6T	300.0	0.25		75.0		75.0	13.4	61.6
KEG RIVER U6U	210.0	0.25		52.5		52.5	14.7	37.8
KEG RIVER V6V	697.0	0.30		209.0		209.0	11.1	197.9
KEG RIVER W6W	130.0	0.30		39.0		39.0	7.6	31.4
KEG RIVER X6X	225.0	0.30		67.5		67.5	5.8	61.7
KEG RIVER Y6Y	860.0	0.25		215.0		215.0	32.1	182.9
KEG RIVER Z6Z	234.0	0.30		70.2		70.2	4.5	65.7
KEG RIVER B7B	350.0	0.25		87.5		87.5	11.6	75.9
UNDEFINED AND CONFIDENTIAL POOLS								
TOTAL UNDEFINED	56 883.6			4 025.1		4 025.1	777.0	3 248.1
TOTAL CONFIDENTIAL	42 393.9			8 837.8		8 837.8	72.5	8 765.3
TOTAL LIGHT-MEDIUM CRUDE OIL								
	6 952 657.5			1 450 131.0	636 004.2	2 086 130.4	1 580 132.5	505 997.9

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
8	67.55	0.100	0.15	0.70	120	842	81	11 760	1 553.1	1981	83 12 - GPP
19	51.30	0.050	0.16	0.83	62	860	51	12 885	1 508.8	1982	86 12 - GPP
64	28.50	0.050	0.14	0.78	83	831	78	14 984	1 586.8	1982	86 12 - SUSP 85 04
13	26.00	0.120	0.21	0.89	36	894	61	6 135	1 435.0	1982	89 12
16	23.00	0.080	0.15	0.89	36	911	61	12 819	1 406.5	1983	89 12 - SUSP 87 11
40	15.26	0.050	0.08	0.83	60	853	73	13 682	1 527.0	1983	86 06
25	17.60	0.060	0.12	0.89	31	906	66	13 650	1 412.4	1983	85 07
16	55.00	0.140	0.10	0.84	55	32	71	13 965	1 456.6	1984	89 12
16	68.70	0.060	0.25	0.83	60	830	71	13 640	1 500.0	1984	89 12 - GPP
64	21.00	0.050	0.18	0.88	42	854	69	15 891	1 567.5	1984	84 08 - ABAND 86 09
8	54.60	0.100	0.15	0.83	58	858	74	14 475	1 629.7	1983	86 03
64	17.50	0.080	0.10	0.86	43	881	66	13 503	1 512.0	1983	86 12 - SUSP 85 06
16	29.80	0.050	0.16	0.81	73	856	69	14 900	1 533.8	1983	89 12
64	37.75	0.080	0.12	0.93	51	874	77	14 316	1 470.8	1983	88 12 - SUSP 86 08
64	16.60	0.035	0.22	0.90	32	901	52	13 447	1 425.7	1983	85 01
14	38.40	0.050	0.32	0.82	39	864	71	10 438	1 590.4	1984	86 01
35	25.27	0.047	0.18	0.88	42	858	69	10 654	1 462.2	1984	86 06
19	32.10	0.065	0.14	0.83	74	865	70	13 676	1 458.4	1984	86 06
30	23.70	0.043	0.10	0.78	89	855	71	13 699	1 528.7	1984	86 05
38	16.05	0.023	0.26	0.82	64	863	71	13 328	1 449.0	1984	86 06 - ABAND 86 03
21	28.99	0.046	0.18	0.81	73	856	69	15 076	1 571.9	1984	86 06 - SUSP 86 01
36	16.91	0.055	0.13	0.81	73	846	69	13 133	1 547.2	1984	88 12 - SUSP 86 09
6	51.90	0.150	0.12	0.85	49	865	65	13 473	1 471.3	1985	86 04
22	27.76	0.060	0.15	0.87	38	882	73	10 498	1 621.5	1985	86 06
17	35.87	0.047	0.22	0.85	49	878	73	13 120	1 555.0	1985	86 06
64	16.50	0.046	0.27	0.85	51	885	66	12 389	1 424.3	1972	88 12 - SUSP 86 07
17	75.11	0.083	0.18	0.84	55	865	71	12 544	1 479.8	1985	89 12
22	27.65	0.046	0.33	0.80	84	869	73	15 424	1 602.4	1985	89 12 - SUSP 87 09
8	31.57	0.070	0.10	0.88	33	878	69	13 072	1 428.6	1985	89 12 - SUSP 87 08
64	8.50	0.040	0.35	0.83	55	823	62	13 279	1 473.3	1985	86 06
28	30.60	0.080	0.15	0.86	41	855	70	14 107	1 575.0	1986	89 12
26	23.46	0.064	0.18	0.78	79	834	79	13 476	1 579.5	1986	89 12
28	35.42	0.062	0.16	0.88	34	850	72	14 288	1 543.8	1986	86 10
11	59.00	0.059	0.20	0.82	64	865	71	13 160	1 485.9	1967	86 12 - GPP
16	23.00	0.050	0.14	0.82	64	865	71	14 728	1 495.5	1985	86 12
17	37.01	0.086	0.16	0.88	33	881	69	14 764	1 491.3	1986	87 02
19	32.63	0.072	0.20	0.84	54	868	71	13 941	1 439.3	1986	87 02
15	40.61	0.057	0.28	0.84	62	876	71	11 000	1 430.8	1987	88 05
64	15.50	0.102	0.18	0.84	54	870	71	14 162	1 494.3	1987	87 12
31	18.88	0.039	0.27	0.78	46	857	71	13 494	1 548.4	1987	88 11
31	24.17	0.050	0.23	0.78	89	858	71	13 792	1 555.3	1987	88 06
39	56.52	0.058	0.17	0.81	73	849	78		1 591.3	1988	88 12
64	14.10	0.055	0.24	0.62	215	822	76	14 381	1 545.9	1988	89 01
32	25.10	0.064	0.16	0.81	75	855	68		1 512.3	1988	89 04

TABLE 2-4

FIELD POOL	1	3		4	5		6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES	
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL			
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	
ALDERSON 015-11W4									
UPPER MANNVILLE A	107.0	<0.01		0.2		0.2	0.2		
UPPER MANNVILLE B	154.0	0.10		15.4		15.4	11.4	4.0	
UPPER MANNVILLE C	455.0	0.15		68.3		68.3	34.1	34.2	
UPPER MANNVILLE D	1 100.0	0.12	0.13	122.0	143.0	275.0	134.9	140.1	
WATER FLOOD									
UPPER MANNVILLE F	205.0	<0.01		0.4		0.4	0.4		
UPPER MANNVILLE G	928.0	<0.01		1.7		1.7	1.7		
UPPER MANNVILLE I	376.0	0.04		15.0		15.0	11.3	3.7	
UPPER MANNVILLE J	289.0	0.05		14.5		14.5	9.9	4.6	
UPPER MANNVILLE L	180.0	0.10		18.0		18.0	14.2	3.8	
UPPER MANNVILLE R	575.0	0.15	0.15	86.3	86.2	173.0	107.9	65.1	
WATER FLOOD									
UPPER MANNVILLE S	500.0	0.10	0.13	50.0	65.0	115.0	85.1	29.9	
WATER FLOOD									
UPPER MANNVILLE T	186.0	0.10		18.6		18.6	15.0	3.6	
UPPER MANNVILLE U	85.9	0.15		12.9		12.9	9.8	3.1	
UPPER MANNVILLE Y	599.0	0.10		59.9		59.9	51.8	8.1	
UPPER MANNVILLE Z	1 200.0	0.10	0.20	120.0	240.0	360.0	228.0	132.0	
WATER FLOOD									
UPPER MANNVILLE AA	179.0	0.15		26.9		26.9	15.4	11.5	
UPPER MANNVILLE BB	146.0	<0.01		0.1		0.1	0.1		
UPPER MANNVILLE CC	99.8	0.15		15.0		15.0	8.6	6.4	
UPPER MANNVILLE DD	200.0	0.15		30.0		30.0	15.0	15.0	
UPPER MANNVILLE EE	127.4	0.15		19.1		19.1	11.2	7.9	
UPPER MANNVILLE GG	105.0	<0.02		1.7		1.7	1.7		
UPPER MANNVILLE HH	124.0	0.05		6.2		6.2	4.0	2.2	
UPPER MANNVILLE KK	276.0	0.10		27.6		27.6	9.4	18.2	
UPPER MANNVILLE LL	87.0	0.10		8.7		8.7	6.4	2.3	
UPPER MANNVILLE MM	119.0	0.05		6.0		6.0	0.4	5.6	
UPPER MANNVILLE NN	109.0	<0.02		1.4		1.4	1.4		
UPPER MANNVILLE RR	131.0	<0.01		0.1		0.1	0.1		
UPPER MANNVILLE SS	650.0	0.15		97.5		97.5	57.4	40.1	
UPPER MANNVILLE TT	42.1	0.10		4.2		4.2	2.6	1.6	
UPPER MANNVILLE UU	113.0	<0.01		0.2		0.2	0.2		
UPPER MANNVILLE WW	194.0	0.10		19.4		19.4	5.5	13.9	
UPPER MANNVILLE XX	140.0	0.15		21.0		21.0	15.1	5.9	
UPPER MANNVILLE YY	1 090.0	0.07		76.3		76.3	55.9	20.4	
UPPER MANNVILLE	127.0	<0.01		1.1		1.1	1.1		
H & ZZ									
UPPER MANNVILLE AAA	65.4	0.10		6.5		6.5	1.1	5.4	
UPPER MANNVILLE BBB	25.5	0.12		3.1		3.1	1.9	1.2	
UPPER MANNVILLE FFF	179.0	0.10		17.9		17.9	5.9	12.0	
UPPER MANNVILLE GGG	79.5	0.15		11.9		11.9	4.2	7.7	
UPPER MANNVILLE HHH	76.6	0.10		7.7		7.7	2.0	5.7	
UPPER MANNVILLE III	26.1	0.10		2.6		2.6	0.1	2.5	
UPPER MANNVILLE JJJ	24.2	0.10		2.4		2.4	1.0	1.4	
UPPER MANNVILLE KKK	70.0	0.10		7.0		7.0	1.7	5.3	
LOWER MANNVILLE A	719.0	0.20		144.0		144.0	122.9	21.1	
LOWER MANNVILLE B	180.0	0.12	0.06	216.0	108.0	324.0	269.0	55.0	
WATER FLOOD									
LOWER MANNVILLE E	173.0	<0.01		0.4		0.4	0.4		
LOWER MANNVILLE F	1 501.0	0.07		105.0		105.0	75.1	29.9	
LOWER MANNVILLE H	677.0	0.07		47.4		47.4	40.0	7.4	
LOWER MANNVILLE J	817.0	0.05		40.9		40.9	32.8	8.1	
LOWER MANNVILLE K	1 330.0	0.10		133.0		133.0	81.0	52.0	
LOWER MANNVILLE M	49.5	<0.01		0.1		0.1	0.1		
LOWER MANNVILLE N	84.9	0.15		12.7		12.7	8.9	3.8	
LOWER MANNVILLE O	411.0	0.10		41.1		41.1	15.6	25.5	
LOWER MANNVILLE P	82.0	0.10		8.2		8.2	0.4	7.8	
LOWER MANNVILLE Q	455.0	0.05		22.8		22.8	10.2	12.6	
LOWER MANNVILLE R	59.1	<0.01		0.2		0.2	0.2		
LOWER MANNVILLE S	43.4	<0.07		2.7		2.7	2.7		
LOWER MANNVILLE U	111.0	0.10		11.1		11.1	7.1	4.0	
LOWER MANNVILLE W	261.0	0.05		13.1		13.1	6.7	6.4	
LOWER MANNVILLE X	165.0	0.10		16.5		16.5	8.4	8.1	
LOWER MANNVILLE Y	84.2	0.10		8.4		8.4	4.0	4.4	
LOWER MANNVILLE Z	288.0	0.10		28.8		28.8	22.8	6.0	
LOWER MANNVILLE AA	604.0	0.03		18.1		18.1	5.1	13.0	
LOWER MANNVILLE BB	639.0	0.10		63.9		63.9	24.8	39.1	
LOWER MANNVILLE DD	94.1	0.10		9.4		9.4	1.2	8.2	
LOWER MANNVILLE EE	102.0	<0.01		0.2		0.2	0.2		
LOWER MANNVILLE FF	35.4	0.15		5.3		5.3	2.3	3.0	

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
65	1.22	0.220	0.30	0.88	41	910	32	11 500	991.8	1970	70 01 - SUSP 70 11
65	1.52	0.240	0.26	0.88	41	946	32	10 900	994.3	1969	87 12 - GPP
253	1.14	0.230	0.22	0.88	50	928	30	11 090	1 014.2	1971	85 12 - GPP
316	3.00	0.220	0.42	0.91	54	898	33	10 560	952.5	1970	88 03 - GPP
65	2.44	0.230	0.36	0.88	43	965	32	10 860	987.2	1972	78 03 - SUSP 78 01
65	11.58	0.210	0.33	0.88	53	898	32	11 340	1 021.4	1973	83 12 - SUSP 83 10
170	1.81	0.190	0.27	0.88	50	876	31	10 870	979.9	1973	85 12 - GPP
64	4.31	0.170	0.30	0.88	57	921	31	11 270	1 050.3	1976	85 12
64	2.00	0.200	0.20	0.88	53	865	34	10 955	987.9	1972	83 06
64	5.48	0.230	0.20	0.89	72	890	31	11 030	1 030.1	1978	86 06
60	4.30	0.270	0.17	0.86	99	887	31	11 070	1 027.9	1978	84 03 - GPP
83	1.60	0.210	0.23	0.87	54	887	28	9 970	1 015.7	1979	84 07 - GPP
32	2.76	0.170	0.35	0.88	58	900	30	10 424	994.3	1980	89 11
32	10.90	0.260	0.25	0.88	69	882	28	11 315	1 032.9	1980	83 09
117	6.21	0.240	0.15	0.81	39	891	33	11 376	1 024.0	1979	85 02 - GPP
32	3.40	0.220	0.15	0.88	68	887	34	11 060	1 026.6	1978	88 12
32	3.00	0.220	0.23	0.90	48	925	31	9 698	1 018.0	1980	86 12 - SUSP 81 10
48	1.30	0.230	0.21	0.88	62	897	30	10 650	1 036.0	1980	87 12
90	2.00	0.180	0.30	0.88	45	874	34	10 154	1 011.5	1980	86 12
32	2.00	0.260	0.13	0.88	48	856	32	10 506	1 014.0	1980	88 12
32	3.60	0.160	0.35	0.88	68	888	31	11 483	1 029.4	1980	83 12 - SUSP 81 10
64	1.80	0.170	0.28	0.88	41	904	35	10 833	1 012.9	1974	82 02
96	2.30	0.200	0.29	0.88	49	868	31	11 320	994.4	1981	83 06 - GPP
16	4.00	0.220	0.30	0.88	50	930	32	10 096	995.0	1982	85 12 - SUSP 89 03
16	6.50	0.200	0.35	0.88	51	934	32	10 315	965.0	1982	83 06
16	4.70	0.220	0.25	0.88	52	925	29	10 828	1 026.0	1981	88 12 - SUSP 86 08
32	4.30	0.180	0.40	0.88	50	888	31	8 190	990.2	1983	89 12 - SUSP 87 06
100	6.88	0.150	0.30	0.90	39	885	33	11 108	1 029.7	1979	88 12
16	2.50	0.180	0.35	0.90	39	885	33	11 051	1 023.8	1979	83 12
32	2.00	0.250	0.20	0.88	50	892	29	9 825	1 017.3	1983	86 12 - ABAND 89 07
64	2.57	0.220	0.39	0.88	50	895	28	9 372	963.1	1984	86 04
54	2.72	0.180	0.40	0.88	50	871	30	10 962	974.1	1984	87 12
65	8.23	0.300	0.20	0.85	57	898	32	11 163	1 008.9	1971	87 12 - GPP
64	1.82	0.202	0.40	0.90	27	946	32	11 916	961.8	1974	85 06 - ABAND 85 09
16	3.30	0.210	0.33	0.88	51	921	30	10 510	959.0	1985	85 12
16	1.30	0.200	0.32	0.90	39	888	30	10 975	1 002.4	1985	87 12 - GPP
32	3.65	0.260	0.33	0.88	35	966	30	11 035	920.9	1986	89 08
30	2.20	0.190	0.28	0.88	42	886	33	10 431	1 009.0	1987	89 12
16	2.50	0.259	0.16	0.88	42	910	33	9 507	1 026.3	1987	88 06
16	1.00	0.235	0.27	0.95	35	964	29	9 423	921.2	1987	88 06
16	2.00	0.140	0.40	0.90	42	910	33	11 554	967.0	1987	88 07
16	2.80	0.240	0.26	0.88	71	910	32	9 338	1 022.1	1988	88 10
228	2.56	0.200	0.30	0.88	41	904	32	10 200	924.8	1962	88 12 - GPP
655	2.24	0.220	0.38	0.90	41	904	31	10 430	945.8	1964	89 02 - GPP
65	2.74	0.170	0.35	0.88	41	881	32	11 030	1 008.6	1970	71 03 - ABAND 71 10
329	3.05	0.250	0.32	0.88	53	876	30	10 490	975.7	1971	87 12 - GPP
65	6.10	0.300	0.35	0.88	54	904	32	10 480	963.5	1969	85 12 - GPP
128	4.63	0.224	0.30	0.88	53	855	36	11 280	1 026.9	1972	82 12
266	3.43	0.267	0.36	0.85	59	898	29	10 540	973.5	1977	84 12
32	2.00	0.150	0.40	0.86	64	888	35	9 881	1 052.0	1979	83 12 - SUSP 80 08
32	2.10	0.210	0.32	0.88	58	888	30	10 100	1 047.7	1979	88 12
192	1.81	0.190	0.31	0.90	40	912	32	10 655	968.8	1980	83 05
64	1.80	0.160	0.50	0.89	50	912	31	11 728	985.3	1970	83 12 - SUSP 87 12
32	13.20	0.210	0.43	0.90	34	939	34	11 192	1 016.9	1980	81 09
16	3.60	0.190	0.40	0.90	43	939	34	10 421	1 024.8	1981	82 03 - SUSP 83 05
32	2.00	0.110	0.30	0.88	58	878	29	10 678	1 049.5	1981	88 12 - SUSP 86 07
16	5.70	0.190	0.29	0.90	40	914	34	11 177	1 050.4	1981	84 10 - GPP
32	8.00	0.210	0.46	0.90	41	923	28	10 238	961.0	1981	82 09
32	6.60	0.160	0.44	0.87	65	890	31	9 950	1 043.4	1981	84 11
16	5.00	0.180	0.35	0.90	41	897	31	10 969	1 029.9	1982	82 12 - GPP
128	2.49	0.176	0.41	0.90	41	917	31	10 367	937.3	1982	84 12
64	7.53	0.220	0.40	0.95	24	930	33	10 411	963.7	1982	85 12
64	7.70	0.210	0.35	0.95	19	908	32	10 374	968.4	1982	89 12
32	4.43	0.150	0.48	0.85	67	875	32	10 103	1 032.0	1982	84 11 - GPP
16	6.20	0.190	0.40	0.90	40	933	31	7 548	974.3	1982	83 05 - SUSP 84 12
32	1.00	0.200	0.35	0.85	67	875	32	10 951	1 042.0	1982	88 12

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
ALDERSON 015-11W4 (CONTINUED)								
LOWER MANNVILLE GG	92.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE HH	200.0	0.05		10.0		10.0	7.8	2.2
LOWER MANNVILLE II	58.4	<0.02		0.8		0.8	0.8	
LOWER MANNVILLE JJ	210.0	0.05		10.5		10.5	7.2	3.3
LOWER MANNVILLE KK	243.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE LL	99.5	0.10		10.0		10.0	3.9	6.1
LOWER MANNVILLE MM	544.0	0.10		54.4		54.4	15.0	39.4
LOWER MANNVILLE NN	165.0	0.10		16.5		16.5	3.9	12.6
LOWER MANNVILLE OO	46.7	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE PP	148.0	<0.01		0.6		0.6	0.6	
LOWER MANNVILLE QQ	1 800.0	0.17		306.0		306.0	148.7	157.3
LOWER MANNVILLE SS	44.4	0.15		6.7		6.7	4.4	2.3
LOWER MANNVILLE TT	56.4	0.17		9.6		9.6	9.0	0.6
LOWER MANNVILLE UU	114.0	<0.01		0.3		0.3	0.3	
LOWER MANNVILLE VV	103.0	0.10		10.3		10.3	5.9	4.4
LOWER MANNVILLE WW	67.3	0.10		6.7		6.7	4.5	2.2
LOWER MANNVILLE XX	43.4	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE YY	41.8	<0.01		0.3		0.3	0.3	
LOWER MANNVILLE ZZ	76.0	<0.01		0.1		0.1		0.1
LOWER MANNVILLE AAA	538.0	0.15		80.7		80.7	67.4	13.3
LOWER MANNVILLE BBB	31.7	<0.03		0.9		0.9	0.9	
LOWER MANNVILLE CCC	54.1	0.15		8.1		8.1	5.1	3.0
LOWER MANNVILLE DDD	28.6	0.10		2.9		2.9	2.6	0.3
LOWER MANNVILLE EEE	10.3	<0.03		0.3		0.3	0.3	
LOWER MANNVILLE FFF	44.0	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE HHH	32.5	0.10		3.3		3.3	2.6	0.7
LOWER MANNVILLE III	25.7	0.10		2.6		2.6	1.1	1.5
LOWER MANNVILLE KKK	27.9	0.10		2.8		2.8	2.1	0.7
LOWER MANNVILLE MMM	76.0	0.05		3.8		3.8	1.7	2.1
LOWER MANNVILLE OOO	13.2	<0.02		0.2		0.2	0.2	
LOWER MANNVILLE QQQ	128.0	0.15		19.2		19.2	3.6	15.6
LOWER MANNVILLE RRR	46.3	<0.01		0.3		0.3	0.3	
LOWER MANNVILLE SSS	189.0	0.10		18.9		18.9	8.0	10.9
LOWER MANNVILLE TTT	47.7	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE UUU	180.0	0.03		5.4		5.4	1.9	3.5
LOWER MANNVILLE A2A	600.0	0.25		150.0		150.0	116.3	33.7
LOWER MANNVILLE C2C	229.0	0.10		22.9		22.9	0.2	22.7
LOWER MANNVILLE D2D	57.7	0.15		8.7		8.7	5.2	3.5
LOWER MANNVILLE G2G	9.4	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE H2H	370.0	0.13		48.1		48.1	40.0	8.1
LOWER MANNVILLE I2I	51.2	0.10		5.1		5.1	0.8	4.3
LOWER MANNVILLE J2J	77.8	0.10		7.8		7.8	4.1	3.7
LOWER MANNVILLE K2K	46.6	0.10		4.7		4.7	1.0	3.7
LOWER MANNVILLE L2L	106.0	0.12		12.7		12.7	12.2	0.5
LOWER MANNVILLE M2M	941.0	0.05		47.1		47.1	22.4	24.7
DETRITAL A	178.0	0.10		17.8		17.8	6.0	11.8
DETRITAL B	151.0	0.10		15.1		15.1	6.5	8.6
DETRITAL C	77.4	0.10		7.7		7.7	5.6	2.1
DETRITAL D	146.0	<0.01		0.4		0.4	0.4	
DETRITAL F	143.0	<0.03		3.6		3.6	3.6	
DETRITAL G	217.0	0.05		10.8		10.8	0.1	10.7
DETRITAL H	448.0	0.05		22.4		22.4	0.6	21.8
ARCS B	388.0	0.02		7.8		7.8	2.6	5.2
ARCS C	171.0	0.05		8.6		8.6	0.2	8.4
ALEXANDER 056-27W4								
BASAL QUARTZ D	175.0	<0.01		0.6		0.6	0.6	
BASAL QUARTZ E	126.0	0.08		10.1		10.1	6.4	3.7
BASAL QUARTZ G	178.0	0.10		17.8		17.8	10.5	7.3
WABAMUN B	513.0	<0.01		0.3		0.3	0.3	
WABAMUN C	41.9	0.10		4.2		4.2	1.8	2.4
WABAMUN D	153.0	<0.01		1.0		1.0	1.0	
WABAMUN E	57.6	0.15		10.1		10.1	7.3	2.8
WABAMUN F	62.5	0.10		6.3		6.3	2.2	4.1
ALEXIS 056-04W5								
OSTRACOD A	159.0	<0.01		0.7		0.7	0.7	
OSTRACOD B	296.0	0.04		11.8		11.8	9.3	2.5
BANFF A	7 580.0	0.15		1 140.0		1 140.0	472.9	667.1

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
32	2.20	0.220	0.34	0.90	42	916	32	8 862	966.1	1982	83 06 - SUSP 84 02
56	2.38	0.280	0.39	0.88	47	904	34	10 025	944.1	1982	88 01
16	3.30	0.240	0.40	0.90	39	969	34	9 500	939.2	1982	83 06 - ABAND 86 11
16	13.00	0.190	0.41	0.90	41	933	33	10 415	973.1	1982	83 07
32	8.50	0.178	0.43	0.88	50	907	33	10 041	950.3	1983	83 11 - SUSP 84 09
32	3.60	0.160	0.40	0.90	41	910	28	10 142	934.3	1982	83 12
64	7.50	0.180	0.30	0.90	42	890	31	11 274	1 002.2	1983	84 05
64	2.00	0.220	0.35	0.90	42	887	30	9 665	967.3	1983	84 05
16	3.00	0.170	0.35	0.88	52	931	29	9 674	968.3	1983	89 12 - SUSP 86 12
16	6.70	0.230	0.32	0.88	52	928	33	10 533	981.8	1983	89 12 - SUSP 87 06
404	4.57	0.180	0.37	0.86	100	894	30	10 710	983.4	1983	88 12
16	2.40	0.200	0.35	0.89	41	927	30	10 415	941.0	1983	88 12
16	3.00	0.220	0.40	0.89	41	927	27	10 572	948.5	1983	89 12
16	5.20	0.240	0.35	0.88	50	930	34	10 094	1 019.6	1982	88 12 - SUSP 86 09
16	6.10	0.200	0.40	0.88	50	943	33	10 373	984.8	1983	84 09
16	3.50	0.210	0.35	0.88	50	943	33	10 478	995.9	1983	84 09
32	1.00	0.230	0.33	0.88	50	915	30	11 120	1 017.7	1983	89 12 - SUSP 86 12
16	3.60	0.150	0.45	0.88	50	890	31	10 254	1 037.2	1983	88 12 - SUSP 86 07
16	5.00	0.180	0.40	0.88	50	882	31	10 379	1 041.5	1983	84 10 - ABAND 84 06
64	5.90	0.240	0.34	0.90	37	877	29	10 411	965.3	1984	87 12 - GPP
16	1.20	0.250	0.25	0.88	42	904	32	10 904	1 041.1	1980	88 12 - ABAND 89 06
16	3.90	0.170	0.40	0.85	65	902	31	10 669	1 030.2	1984	89 12
16	2.50	0.140	0.40	0.85	65	902	31	10 915	1 043.9	1984	84 11
16	0.60	0.180	0.32	0.88	53	895	30	10 205	988.8	1984	84 11 - ABAND 87 12
16	2.50	0.180	0.30	0.88	67	875	33	10 435	1 057.6	1984	89 12 - SUSP 87 08
16	2.10	0.200	0.45	0.88	54	928	30	10 064	964.0	1984	84 12
16	1.80	0.160	0.38	0.90	40	904	30	10 910	1 022.8	1973	85 03 - GPP
32	1.00	0.180	0.45	0.88	53	897	30	10 251	982.8	1984	85 02
32	2.50	0.180	0.40	0.88	50	900	32	9 755	929.1	1984	85 03
16	1.00	0.180	0.48	0.88	50	925	30	9 264	932.2	1984	85 05 - ABAND 86 09
32	4.00	0.180	0.37	0.88	50	880	30	9 239	995.7	1984	89 12
16	2.20	0.220	0.35	0.92	33	880	30	9 917	976.4	1984	85 05 - ABAND 88 10
16	10.00	0.210	0.36	0.88	50	885	30	10 681	990.6	1985	85 07
16	3.90	0.170	0.50	0.90	42	871	31	11 380	1 004.0	1985	85 07 - SUSP 85 06
32	5.40	0.170	0.32	0.90	42	890	33	11 012	1 040.2	1984	87 12
113	5.37	0.190	0.39	0.85	64	892	32	10 824	983.0	1962	88 12 - GPP
32	4.90	0.220	0.30	0.95	26	920	21	10 312	964.7	1985	86 03
32	1.50	0.210	0.35	0.88	53	895	28	10 850	981.2	1984	87 12
16	1.40	0.160	0.70	0.87	59	825	29	10 434	993.5	1986	87 07 - ABAND 88 03
99	2.92	0.260	0.44	0.88	53	876	30	10 477	977.5	1971	87 12 - GPP
16	4.30	0.160	0.44	0.83	66	830	39	10 105	996.9	1987	88 02
32	3.00	0.170	0.47	0.90	45	869	29	9 030	950.5	1988	88 06
16	3.60	0.150	0.35	0.83	67	852	39	9 271	996.8	1987	88 07
32	3.09	0.180	0.30	0.85	48	904	32	10 632	959.0	1962	81 05
160	6.93	0.160	0.39	0.87	59	886	29		965.6	1988	89 07
64	2.50	0.200	0.37	0.88	50	902	31	12 975	1 045.0	1983	83 07
64	3.03	0.170	0.48	0.88	52	895	33	10 480	985.8	1983	85 12
32	2.50	0.200	0.45	0.88	52	888	31	10 604	993.0	1983	85 12
64	2.10	0.190	0.35	0.88	52	893	31	7 786	978.2	1985	85 08 - ABAND 85 12
32	3.40	0.230	0.33	0.85	64	892	32	10 395	991.2	1963	85 12 - ABAND 89 03
64	4.00	0.190	0.47	0.84	69	892	32		963.3	1988	89 02
64	7.30	0.210	0.45	0.83	66	852	39	10 705	983.1	1988	89 05
64	9.72	0.110	0.37	0.90	40	871	34	12 246	1 354.1	1986	88 04
64	2.60	0.150	0.23	0.89	49	883	35		1 348.4	1988	88 10
65	3.05	0.160	0.35	0.85	35	927	38	8 830	1 157.6	1968	71 12 - SUSP 71 10
64	1.52	0.230	0.34	0.85	66	887	48	9 100	1 234.1	1976	85 12
64	2.20	0.200	0.21	0.80	90	860	39	7 345	1 225.8	1983	84 10 - GPP
65	10.06	0.124	0.25	0.85	39	927	48	9 100	1 234.1	1968	71 12 - ABAND 72 12
16	5.90	0.095	0.44	0.85	64	938	37	9 214	1 241.8	1984	85 04
32	5.00	0.160	0.37	0.95	15	940	43	9 757	1 310.5	1983	84 02 - ABAND 86 06
64	2.30	0.090	0.40	0.85	78	939	34	9 429	1 247.4	1981	88 12
32	2.70	0.130	0.36	0.87	54	923	38	10 145	1 197.4	1985	85 12 - SUSP 88 09
65	2.44	0.160	0.30	0.90	50	921	43	11 380	1 361.8	1968	71 12 - ABAND 71 12
65	3.66	0.200	0.30	0.89	44	946	43	11 460	1 388.1	1970	88 12 - GPP
729	14.36	0.130	0.36	0.87	51	921	43	11 470	1 373.7	1968	83 09

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
ALTARIO 035-01W4								
MCLAREN A	82.3	0.05		4.1		4.1	1.5	2.6
GLAUCONITIC A	86.6	<0.01		0.1		0.1	0.1	
GLAUCONITIC B	72.4	<0.01		0.1		0.1		0.1
GLAUCONITIC C	56.0	<0.01		0.2		0.2	0.2	
BAKKEN A	980.0	0.05		49.0		49.0	7.2	41.8
ARMADA 016-19W4								
UPPER MANNVILLE E	318.0	<0.01		0.4		0.4	0.4	
BASAL QUARTZ C	6.3	<0.05		0.3		0.3	0.3	
ATLEE-BUFFALO 021-06W4								
UPPER MANNVILLE A	77.2	<0.02		1.0		1.0	1.0	
UPPER MANNVILLE F	3 800.0	0.05		190.0		190.0	47.0	143.0
UPPER MANNVILLE G	5 070.0	0.08		406.0		406.0	154.3	251.7
UPPER MANNVILLE K	46.7	0.05		2.3		2.3	1.8	0.5
UPPER MANNVILLE P	413.0	0.05		20.6		20.6	2.8	17.8
UPPER MANNVILLE R	14.0	0.10		1.4		1.4	0.1	1.3
GLAUCONITIC A	142.0	0.05		7.1		7.1	1.6	5.5
GLAUCONITIC B	25.1	<0.01		0.2		0.2	0.2	
GLAUCONITIC C	170.0	0.05		8.5		8.5	0.3	8.2
GLAUCONITIC D	151.0	0.10		15.1		15.1	0.2	14.9
GLAUCONITIC E	29.2	0.10		2.9		2.9	0.7	2.2
OSTRACOD A	22.5	<0.01		0.1		0.1	0.1	
BASAL MANNVILLE B	192.0	<0.01		0.1		0.1	0.1	
BASAL MANNVILLE D	462.0	<0.01		0.5		0.5	0.5	
BASAL MANNVILLE E	80.0	<0.10		8.0		8.0	7.0	1.0
BASAL MANNVILLE F	26.5	<0.06		1.4		1.4	1.4	
BANFF A	188.0	<0.01		0.3		0.3	0.3	
AUBURNDALE 047-06W4								
COLONY F	103.0	<0.01		0.1		0.1	0.1	
WAINWRIGHT A	1 010.0	0.10		101.0		101.0	83.6	17.4
WAINWRIGHT B	1 590.0	0.05		79.5		79.5	37.3	42.2
BADGER 016-18W4								
UPPER MANNVILLE B	2 350.0			305.5	393.7	699.2	155.1	544.1
TOTAL								
PRIMARY AREA	892.0	0.13		116.0		116.0		
WATER FLOOD AREA	1 458.0	0.13	0.27	189.5	393.7	583.2		
UPPER MANNVILLE D	150.0	0.13		19.5		19.5	10.8	8.7
LOWER MANNVILLE A	101.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE C	37.4	<0.01		0.1		0.1		0.1
BANTRY 018-13W4								
MANNVILLE A	25 300.0	0.32		8 100.0		8 100.0	6 502.3	1 597.7
MANNVILLE B	1 756.0	0.15		263.0		263.0	223.1	39.9
MANNVILLE D	4 760.0	0.30		1 428.0		1 428.0	1 025.2	402.8
MANNVILLE F	1 820.0	0.10		182.0		182.0	88.4	93.6
MANNVILLE G	752.0	0.15		113.0		113.0	78.9	34.1
MANNVILLE H	100.0	<0.02		1.7		1.7	1.7	
MANNVILLE I	165.0	0.12		19.8		19.8	18.0	1.8
MANNVILLE J	545.0	<0.01		0.2		0.2	0.2	
MANNVILLE M	120.0	0.02		22.4		22.4	12.5	9.9
MANNVILLE O	173.0	0.07		12.1		12.1	10.3	1.8
MANNVILLE P	453.0	0.07		31.7		31.7	22.5	9.2
MANNVILLE R	76.8	<0.01		0.1		0.1	0.1	
MANNVILLE S	70.0	0.07		5.0		5.0	4.2	0.8
MANNVILLE V	82.1	<0.01		0.5		0.5	0.5	
MANNVILLE W	128.0	0.05		6.4		6.4	2.3	4.1
MANNVILLE Z	175.0	0.15		26.3		26.3	12.7	13.6
MANNVILLE AA	183.0	<0.01		0.8		0.8	0.8	
MANNVILLE DD	297.0	0.10		29.7		29.7	9.6	20.1
MANNVILLE FF	1 611.0	<0.17		274.0		274.0	203.6	70.4
MANNVILLE GG	64.2	0.10		6.4		6.4	0.9	5.5
MANNVILLE HH	83.1	<0.01		0.1		0.1	0.1	
MANNVILLE II	169.0	<0.01		0.6		0.6	0.6	
MANNVILLE JJ	11.9	<0.01		0.1		0.1		0.1
MANNVILLE KK	30.7	0.15		4.6		4.6	2.2	2.4
SUNBURST A	146.0	0.10		14.6		14.6	11.0	3.6
SUNBURST C	67.8	0.10		6.8		6.8		6.8
DETRITAL A	58.9	0.10		5.9		5.9	3.7	2.2

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
16	2.90	0.320	0.41	0.94	24	943	28		821.5	1988	88 12
16	4.00	0.230	0.40	0.98	7	970	30	6 999	857.0	1980	80 10 - SUSP 81 09
16	3.50	0.220	0.40	0.98	7	970	30	7 010	861.8	1980	80 10 - ABAND 86 11
16	1.70	0.280	0.25	0.98	14	985	33	6 268	871.9	1979	80 03 - ABAND 83 01
178	3.15	0.300	0.38	0.94	41	959	31	5 891	872.3	1987	89 04
64	8.68	0.120	0.47	0.90	62	922	35	11 138	1 169.7	1984	88 12 - SUSP 86 08
16	0.60	0.120	0.38	0.88	50	930	37	11 701	1 232.7	1981	83 11 - SUSP 85 09
16	3.10	0.260	0.37	0.95	32	969	26	9 285	922.2	1972	89 12 - SUSP 83 03
576	4.00	0.260	0.31	0.92	20	972	31	10 350	920.6	1976	81 07 - GPP
565	4.53	0.280	0.24	0.93	22	969	30	10 032	890.8	1980	85 07 - SUSP 89 01
16	1.80	0.280	0.39	0.95	32	969	26	9 256	986.6	1977	83 09 - GPP
16	11.80	0.299	0.23	0.95	32	970	26	10 152	988.1	1986	87 04
16	1.30	0.250	0.72	0.96	22	994	31	10 777	981.2	1987	89 02 - SUSP 89 06
16	5.70	0.240	0.30	0.93	31	965	32	8 861	875.4	1981	82 04 - SUSP 89 02
16	1.30	0.200	0.35	0.93	30	976	32	8 780	866.9	1982	84 05 - SUSP 84 04
16	6.00	0.300	0.35	0.91	37	979	31	9 946	945.5	1987	88 04 - SUSP 88 12
16	5.00	0.290	0.30	0.93	27	955	37	10 029	969.2	1987	88 06 - SUSP 88 02
16	1.00	0.280	0.32	0.96	22	994	31	10 491	972.3	1987	88 07
16	1.00	0.220	0.34	0.97	10	980	33	9 230	1 009.2	1982	83 01 - ABAND 88 02
16	9.70	0.220	0.42	0.97	21	986	33	10 690	1 020.2	1976	78 10 - SUSP 77 09
65	6.10	0.220	0.44	0.95	21	999	28	9 450	942.1	1974	77 02 - SUSP 84 11
32	2.40	0.184	0.42	0.97	21	986	33	9 896	1 009.7	1976	82 06 - GPP
16	1.20	0.230	0.38	0.97	21	986	33	10 645	1 013.8	1976	82 06 - SUSP 87 04
16	7.00	0.250	0.30	0.96	15	998	32	10 250	897.2	1982	85 12 - SUSP 82 12
16	4.00	0.270	0.40	0.99	8	971	26	2 529	619.6	1981	82 07 - SUSP 83 11
364	1.61	0.300	0.40	0.96	14	959	24	3 760	630.9	1964	87 12 - GPP
370	1.82	0.316	0.22	0.96	9	959	24	3 860	626.8	1974	81 12 - SUSP 89 03
273					56	930	34	11 853	1 110.3	1981	87 02
125	4.64	0.230	0.24	0.88							- GPP
148	6.40	0.230	0.24	0.88							
139	1.26	0.150	0.35	0.88	55	930	33	12 656	1 114.1	1983	87 12
16	5.90	0.150	0.20	0.90	46	965	38	12 270	1 149.3	1978	79 02 - SUSP 79 02
16	2.50	0.200	0.48	0.90	43	928	38	12 114	1 183.5	1985	86 04 - ABAND 89 09
4 565	3.44	0.265	0.31	0.88	54	904	28	10 860	990.6	1948	85 11 - GPP
456	2.50	0.250	0.30	0.88	54	904	28	10 790	971.1	1960	88 12 - GPP
925	3.63	0.230	0.30	0.88	54	904	33	10 790	1 021.4	1963	89 08 - GPP
650	1.96	0.250	0.35	0.88	54	904	33	11 200	1 014.4	1962	89 06 - GPP
192	2.65	0.240	0.30	0.88	54	904	28	10 830	979.3	1964	87 12 - GPP
32	2.13	0.230	0.30	0.90	54	904	38	10 930	1 004.3	1965	89 12 - SUSP 87 07
70	1.83	0.230	0.30	0.80	54	904	32	11 030	1 027.5	1965	86 12 - GPP
65	7.01	0.210	0.35	0.88	54	904	33	10 960	1 018.3	1967	68 09 - ABAND 68 07
120	6.06	0.250	0.30	0.88	54	904	36	8 960	1 003.1	1958	85 12 - GPP
32	3.05	0.250	0.10	0.79	57	915	37	11 400	1 012.2	1964	81 12
48	5.50	0.260	0.25	0.88	54	904	28	10 930	974.1	1968	87 12 - GPP
32	2.50	0.220	0.51	0.89	47	910	37	10 578	1 006.3	1979	81 02 - SUSP 80 03
32	1.53	0.250	0.35	0.88	54	904	33	10 551	1 019.1	1962	83 01 - GPP
32	2.70	0.180	0.40	0.88	54	903	31	9 818	973.9	1980	81 12 - SUSP 83 05
32	3.50	0.200	0.35	0.88	54	914	31	9 592	948.5	1980	84 12 - SUSP 88 12
32	4.50	0.200	0.31	0.88	48	883	34	10 596	964.8	1982	85 08
64	2.50	0.200	0.35	0.88	48	893	35	10 304	1 010.5	1982	89 12 - SUSP 87 01
96	2.99	0.210	0.44	0.88	54	887	29	9 339	949.5	1983	83 09 - GPP
337	3.00	0.255	0.29	0.88	54	904	33	10 790	1 014.2	1968	89 12 - GPP
64	1.00	0.190	0.40	0.88	50	893	37	9 188	1 025.3	1984	84 11
64	1.10	0.220	0.39	0.88	53	882	30	10 867	1 005.4	1984	85 05 - SUSP 85 04
64	2.38	0.200	0.37	0.88	49	893	34	9 389	1 019.9	1985	85 10 - ABAND 89 03
16	1.20	0.150	0.53	0.88	49	870	30	8 573	969.1	1985	85 10 - ABAND 86 02
24	1.21	0.200	0.40	0.88	50	890	30	8 621	974.6	1986	88 12
32	5.00	0.160	0.35	0.88	48	880	32	10 414	961.5	1983	86 10
16	5.20	0.180	0.48	0.87	59	886	29		983.5	1984	89 10 - GPP
32	1.53	0.228	0.40	0.88	42	870	30	8 371	972.0	1983	83 11 - GPP

TABLE 2-4

FIELD POOL	1 INITIAL VOLUME IN PLACE 10 ³ m ³	2 3		4 5 6			7 CUMULATIVE PRODUCTION 10 ³ m ³	8 REMAINING ESTABLISHED RESERVES 10 ³ m ³
		RECOVERY		INITIAL ESTABLISHED RESERVES				
		PRIMARY frac	ENHANCED frac	PRIMARY 10 ³ m ³	ENHANCED 10 ³ m ³	TOTAL 10 ³ m ³		
BANTRY 018-13W4 (CONTINUED)								
DETRITAL B	952.0	0.10		95.2		95.2	35.3	59.9
DETRITAL C	36.0	0.10		3.6		3.6	1.5	2.1
PEKISK0 A	66.7	<0.02		0.8		0.8	0.8	
PEKISK0 B	172.0	<0.01		0.8		0.8	0.8	
PEKISK0 C	134.0	0.10		13.4		13.4	2.6	10.8
PEKISK0 G	620.0	0.10		62.0		62.0	52.6	9.4
PEKISK0 J	120.0	0.10		12.0		12.0	11.0	1.0
PEKISK0 I & SUNBURST B	507.0	0.10		50.7		50.7	49.6	1.1
BARRHEAD 058-05W5								
BANFF A	59.1	<0.02		1.0		1.0	1.0	
BAXTER LAKE 046-05W4								
MANNVILLE C	567.0	<0.01		0.1		0.1	0.1	
WAINWRIGHT	† 340.0	0.17		228.0		228.0	199.0	29.0
WAINWRIGHT C	369.0	0.15		55.3		55.3	36.7	18.6
LLOYDMINSTER A	205.0	<0.01		0.2		0.2	0.2	
BERRY 027-12W4								
UPPER MANNVILLE J	81.0	<0.01		0.7		0.7	0.7	
UPPER MANNVILLE M	84.5	<0.01		0.6		0.6	0.6	
UPPER MANNVILLE Q	41.2	0.10		4.1		4.1	1.1	3.0
LOWER MANNVILLE A	888.0	0.04		35.5		35.5	24.8	10.7
LOWER MANNVILLE F	150.0	0.08		12.0		12.0	7.8	4.2
LOWER MANNVILLE I	52.4	<0.02		0.6		0.6	0.6	
BIGORAY 052-08W5								
PEKISK0 A	5 400.0	0.03		162.0		162.0	145.2	16.8
PEKISK0 F	21.9	<0.01		0.1		0.1	0.1	
BINDLOSS 022-04W4								
GLAUCONITIC A	43.1	<0.03		1.0		1.0	1.0	
LOWER MANNVILLE A	194.0	0.05		9.7		9.7	5.3	4.4
LOWER MANNVILLE B	166.0	<0.01		0.1		0.1	0.1	
BIRCH 050-11W4								
GENERAL PETROLEUM A	105.0	<0.02		1.4		1.4	1.4	
BLACK BUTTE 001-08W4								
MANNVILLE B	1 019.0	0.05		51.0		51.0	28.9	22.1
BLUERIDGE 059-10W5								
PEKISK0 A	† 720.0	<0.01		5.5		5.5	5.5	
BOLLOQUE 065-24W4								
UPPER MANNVILLE A	246.0	0.02		4.9		4.9	2.4	2.5
UPPER MANNVILLE G	† 132.0	0.02		22.6		22.6	3.2	19.4
UPPER MANNVILLE K	459.0	0.02		9.2		9.2	1.6	7.6
BOW ISLAND 011-11W4								
GLAUCONITIC A	5 230.0	0.10		523.0		523.0	217.4	305.6
LOWER MANNVILLE A	49.4	0.10		4.9		4.9	1.1	3.8
LOWER MANNVILLE B	145.0	0.06		8.7		8.7	2.9	5.8
LOWER MANNVILLE C	97.0	0.10		9.7		9.7	6.2	3.5
LOWER MANNVILLE D	173.0	<0.01		0.3		0.3	0.3	
LOWER MANNVILLE E	101.0	0.05		5.0		5.0	2.3	2.7
BUFF COULEE 047-07W4								
COLONY H	139.0	<0.01		0.3		0.3	0.3	
CAPRON 026-03W4								
BANFF A	27.9	0.10		2.8		2.8	0.2	2.6
CESSFORD 025-13W4								
BASAL COLORADO A	†† 830.0			† 799.0	927.5	2 727.0	† 796.7	930.3
TOTAL								
PRIMARY AREA	5 650.0	0.15		871.5		871.5		
WATER FLOOD AREA	6 180.0	0.15	0.15	927.0	927.0	1 854.0		
MANNVILLE M & BASAL COLORADO H	227.0	<0.01		0.4		0.4	0.4	

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
160	4.39	0.230	0.33	0.88	50	882	30	10 096	975.4	1987	88 05
16	3.20	0.160	0.50	0.88	51	880	30	7 600	962.8	1986	86 10
16	14.63	0.045	0.30	0.90	53	965	39	10 740	976.6	1966	68 05 - ABAND 68 09
55	3.05	0.170	0.33	0.90	40	934	32	10 290	983.0	1977	83 12 - ABAND 78 05
64	2.00	0.150	0.20	0.87	55	880	33	10 477	1 007.5	1982	83 01
183	6.45	0.080	0.27	0.90	45	896	32	10 000	967.7	1972	89 04
31	10.20	0.065	0.35	0.90	45	896	32	10 000	961.4	1982	89 04
123	8.14	0.760	0.26	0.90	45	896	32	10 649	964.7	1982	89 04
32	3.00	0.110	0.30	0.80	51	921	40	9 777	1 222.5	1949	82 12 - SUSP 82 02
64	3.70	0.330	0.22	0.93	28	959	29	4 450	661.1	1976	86 12 - SUSP 85 08
307	2.00	0.330	0.31	0.96	18	952	22	3 930	667.8	1948	88 12 - GPP
72	2.31	0.330	0.30	0.96	20	959	20	3 890	631.1	1973	89 03 - GPP
16	10.67	0.240	0.45	0.90	27	927	32	4 128	707.6	1975	78 12 - SUSP 78 12
32	2.47	0.190	0.40	0.90	43	876	37	9 482	1 119.2	1978	83 12 - SUSP 81 11
64	2.00	0.150	0.50	0.88	48	853	34	10 145	1 100.5	1978	88 12 - SUSP 83 09
64	0.70	0.180	0.42	0.88	49	803	45	9 586	1 102.9	1988	88 11
160	4.47	0.210	0.35	0.91	40	891	34	9 670	1 080.1	1965	83 10 - GPP
48	3.23	0.180	0.41	0.91	51	860	42	9 324	1 115.4	1976	82 12 - SUSP 88 12
64	1.00	0.180	0.50	0.91	36	875	43		1 136.0	1985	87 09 - ABAND 88 04
3 000	4.58	0.072	0.35	0.84	62	915	64	15 070	1 903.8	1969	85 01 - GPP
32	4.20	0.035	0.44	0.83	68	935	65	14 305	1 977.0	1979	86 08 - ABAND 86 09
16	1.50	0.270	0.30	0.95	44	945	31	6 695	785.8	1982	88 12 - SUSP 86 09
32	3.40	0.280	0.33	0.95	22	974	30	9 300	787.9	1974	89 12 - GPP
16	6.10	0.280	0.36	0.95	16	778	40	7 130	786.3	1981	83 01 - SUSP 82 12
16	4.50	0.280	0.45	0.98	3	965	24	4 871	643.8	1980	82 03 - SUSP 84 04
348	2.63	0.200	0.36	0.87	62	915	32	8 520	943.2	1969	88 12 - GPP
2 148	2.07	0.065	0.30	0.85	46	940	54	12 490	1 759.3	1968	74 12 - ABAND 81 03
65	2.44	0.250	0.35	0.96	35	946	21	5 810	863.2	1975	89 12 - GPP
48	13.37	0.270	0.34	0.99	10	971	24	4 474	632.9	1984	87 12
16	16.70	0.270	0.33	0.95	20	973	32	4 377	632.2	1988	88 10
288	9.55	0.260	0.23	0.95	19	920	34	9 876	911.3	1985	86 05 - GPP
16	2.50	0.200	0.35	0.95	16	928	31	10 686	918.8	1979	82 03
32	3.55	0.220	0.39	0.95	21	929	33	5 800	927.5	1980	87 07
64	1.27	0.200	0.37	0.95	16	916	31	10 310	931.4	1984	88 08
32	3.00	0.260	0.27	0.95	20	916	33	10 378	927.0	1985	85 07 - SUSP 85 08
64	2.00	0.220	0.62	0.94	25	886	33		930.8	1988	89 04
16	4.60	0.300	0.30	0.90	18	961	92	3 032	601.7	1976	84 11 - SUSP 85 12
16	3.00	0.130	0.53	0.95	22	965	28	9 289	913.5	1987	88 02
3 238					46	898	27	8 720	929.9	1952	87 08 - GPP
1 691	2.36	0.258	0.39	0.90							
1 547	3.03	0.240	0.39	0.90							
128	1.69	0.232	0.48	0.87	60	904	33	9 646	1 056.7	1975	76 12 - SUSP 77 04

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
CESSFORD 025-13W4 (CONTINUED)								
MANNVILLE B	780.0	0.06		46.8		46.8	39.3	7.5
MANNVILLE C	32 000.0	0.09		2 880.0		2 880.0	2 405.5	474.5
MANNVILLE E	286.0	0.10		28.6		28.6	26.6	2.0
MANNVILLE I	139.0	0.10		13.9		13.9	10.1	3.8
MANNVILLE X	190.0	0.15		28.5		28.5	26.4	2.1
MANNVILLE NN	130.0	<0.01		0.2		0.2	0.2	
MANNVILLE QQ	128.0	<0.04		4.6		4.6	4.6	
MANNVILLE Y & Z	5 360.0	0.15		804.0		804.0	468.0	336.0
MANNVILLE GGG	81.0	<0.07		5.4		5.4	5.4	
MANNVILLE RRR	137.0	0.05		6.9		6.9	2.7	4.2
MANNVILLE VVV	47.6	<0.01		0.4		0.4	0.4	
MANNVILLE WWW	89.1	<0.01		0.5		0.5	0.5	
MANNVILLE XXX	146.0	<0.01		0.2		0.2	0.2	
MANNVILLE L2L	57.7	0.10		5.8		5.8	3.3	2.5
MANNVILLE D2D	104.0	0.10		10.4		10.4	5.5	4.9
MANNVILLE P2P	149.0	0.10		14.9		14.9	0.5	14.4
MANNVILLE Q2Q	66.0	<0.01		0.1		0.1	0.1	
MANNVILLE T2T	203.0	0.10		20.3		20.3	8.6	11.7
MANNVILLE U2U	75.1	0.10		7.5		7.5	1.1	6.4
MANNVILLE V2V	28.9	0.10		2.9		2.9	2.5	0.4
COLONY A	55.6	<0.01		0.4		0.4	0.4	
BASAL QUARTZ C	789.0	0.02		15.8		15.8	5.1	10.7
BASAL QUARTZ F	103.0	0.10		10.3		10.3	2.5	7.8
BASAL QUARTZ G	106.0	0.10		10.6		10.6	0.6	10.0
BASAL QUARTZ H	115.0	<0.02		1.5		1.5	1.5	
DETRITAL C	159.0	0.10		15.9		15.9	1.0	14.9
DETRITAL D	246.0	0.05		12.3		12.3	0.2	12.1
PEKISKO A	63.6	<0.03		1.4		1.4	1.4	
CHAUVIN 043-01W4								
MANNVILLE A TOTAL	6 440.0			698.0	549.0	1 247.0	1 181.6	65.4
PRIMARY AREA	341.0	0.08		27.3		27.3		
WATER FLOOD AREA	6 100.0	0.11	0.09	671.0	549.0	1 220.0		
MANNVILLE B	800.0	0.10		80.0		80.0	67.0	13.0
COLONY A	129.0	0.05		6.5		6.5	1.9	4.6
SPARKY A WATER FLOOD	300.0	0.10	0.15	30.0	45.0	75.0	68.6	6.4
SPARKY D	1 510.0	0.08		121.0		121.0	75.5	45.5
SPARKY E	382.0	0.12		45.8		45.8	30.3	15.5
SPARKY F	46.4	<0.01		0.1		0.1	0.1	
GENERAL PETROLEUM A	234.0	<0.01		0.8		0.8	0.8	
LLOYDMINSTER A	401.0	0.05		20.1		20.1	6.2	13.9
LLOYDMINSTER B	369.0	0.05		18.5		18.5	2.5	16.0
LLOYDMINSTER C	253.0	<0.01		0.1		0.1	0.1	
CUMMINGS A	556.0	0.02		11.1		11.1	7.0	4.1
CHAUVIN SOUTH 042-02W4								
UPPER MANNVILLE D	194.0	<0.01		0.3		0.3	0.3	
COLONY A	556.0	0.05		27.8		27.8	15.3	12.5
COLONY B	833.0	0.03		25.0		25.0	20.0	5.0
COLONY H	567.0	0.10		56.7		56.7	23.5	33.2
COLONY O	231.0	0.05		11.6		11.6	6.8	4.8
COLONY R	194.0	0.05		9.7		9.7	0.3	9.4
SPARKY E TOTAL	5 197.0			778.0	467.0	1 245.0	764.8	480.2
PRIMARY AREA	2 082.0	0.15		312.0		312.0		
WATER FLOOD AREA	3 115.0	0.15	0.15	466.0	467.0	933.0		
SPARKY H TOTAL	3 335.0			234.0	607.0	841.0	636.9	204.1
PRIMARY AREA	695.0	0.07		48.7		48.7		
WATER FLOOD AREA	2 640.0	0.07	0.23	185.0	607.0	792.0		
SPARKY M	501.0	0.04		20.0		20.0	10.6	9.4
SPARKY O	163.0	0.05		8.2		8.2	5.5	2.7
SPARKY T	66.6	0.07		4.7		4.7	3.7	1.0
SPARKY V	116.0	0.05		5.8		5.8	4.8	1.0
SPARKY W	234.0	<0.02		2.6		2.6	2.6	
SPARKY X	1 053.0	0.05		52.6		52.6	27.3	25.3
SPARKY Z	70.6	<0.01		0.3		0.3	0.3	
SPARKY AA	60.2	<0.01		0.1		0.1	0.1	
SPARKY CC	89.9	0.06		5.4		5.4	4.2	1.2
SPARKY DD	23.9	0.10		2.4		2.4	0.5	1.9
SPARKY EE	16.3	0.05		0.8		0.8	0.1	0.7
SPARKY N, R & S	1 910.0	0.05		95.6		95.6	70.3	25.3

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
403	1.89	0.230	0.50	0.89	44	904	35	9 760	1 033.6	1953	82 12 - GPP
4 224	6.57	0.220	0.43	0.92	44	910	31	9 760	1 019.5	1951	86 02 - GPP
66	3.90	0.247	0.48	0.87	44	904	37	9 650	1 040.0	1962	77 12 - GPP
65	2.44	0.220	0.54	0.87	45	892	31	9 720	1 022.3	1951	73 12 - SUSP 88 12
64	3.10	0.200	0.45	0.87	45	892	31	8 540	1 019.6	1968	86 12 - GPP
65	1.83	0.230	0.45	0.87	48	892	31	9 580	1 009.5	1976	77 02 - SUSP 76 05
65	1.52	0.200	0.30	0.90	44	915	32	8 760	1 024.4	1974	77 02 - SUSP 82 11
1 881	2.55	0.204	0.37	0.87	45	892	35	9 550	1 010.6	1951	85 09 - GPP
64	1.50	0.210	0.55	0.89	49	904	32	8 340	1 012.8	1977	88 12 - SUSP 86 06
32	3.00	0.230	0.31	0.90	25	919	32	7 906	1 025.5	1980	82 06
32	1.74	0.190	0.50	0.90	31	920	33	7 450	1 023.5	1981	82 07 - SUSP 83 12
32	3.20	0.200	0.50	0.87	40	944	36	9 884	1 061.3	1981	85 12 - SUSP 83 09
32	4.45	0.193	0.41	0.90	38	910	39	8 008	1 054.2	1982	85 12 - SUSP 82 11
32	2.40	0.180	0.52	0.87	56	910	31	9 550	997.4	1984	84 12
64	1.50	0.220	0.40	0.82	78	766	30	9 548	1 102.3	1985	85 12
64	2.00	0.230	0.45	0.92	33	919	34	9 322	1 042.0	1985	86 06
32	2.50	0.230	0.61	0.92	33	909	34	9 368	1 036.8	1986	86 08 - ABAND 89 08
64	3.97	0.170	0.46	0.87	45	895	31	8 474	1 027.3	1987	89 05
64	1.50	0.170	0.50	0.92	33	864	38	8 233	1 183.8	1983	84 04
32	1.00	0.180	0.43	0.88	45	907	45	9 184	1 182.0	1984	84 02
16	3.00	0.230	0.44	0.90	40	955	38	8 646	860.5	1974	88 12 - SUSP 86 08
192	6.55	0.140	0.46	0.83	56	865	40	9 250	1 302.9	1980	89 12
64	3.00	0.150	0.60	0.89	40	859	32	9 679	996.8	1981	85 08
64	2.00	0.176	0.49	0.92	33	890	34	10 548	996.5	1987	88 03
64	1.30	0.240	0.36	0.90	39	896	34	9 721	998.5	1987	88 03 - ABAND 89 06
32	5.80	0.150	0.37	0.90	39	896	27	9 389	1 013.8	1987	88 03 - SUSP 89 04
32	7.50	0.180	0.38	0.92	33	919	34	9 407	1 042.3	1987	88 08
65	1.83	0.100	0.40	0.89	66	844	44	9 580	1 277.4	1961	61 09 - ABAND 68 05
844					14	921	24	4 830	630.0	1952	89 12
64	3.30	0.300	0.44	0.96							
780	4.85	0.300	0.44	0.96							- GPP
191	2.24	0.300	0.35	0.96	14	921	24	4 830	615.7	1954	84 12 - GPP
16	3.90	0.320	0.35	0.99	15	951	26	4 280	571.1	1986	87 05
130	1.82	0.240	0.45	0.96	14	922	24	5 540	625.7	1980	87 12
655	1.27	0.300	0.37	0.96	17	950	24	4 712	589.6	1974	84 12
170	1.18	0.320	0.38	0.96	17	943	24	4 340	612.6	1979	88 12
16	1.70	0.320	0.45	0.97	12	920	24	4 511	663.2	1986	86 08 - SUSP 86 06
32	3.37	0.310	0.28	0.97	13	950	24	4 664	636.7	1979	89 12 - SUSP 87 02
32	6.47	0.280	0.28	0.96	16	940	25	4 600	658.7	1978	82 05
32	6.00	0.290	0.31	0.96	16	940	29	4 345	695.2	1985	86 06
16	6.20	0.310	0.17	0.99	14	955	26	4 935	667.4	1985	88 12 - ABAND 86 07
64	4.44	0.290	0.29	0.95	21	956	26	4 452	637.6	1978	82 09 - GPP
16	5.40	0.320	0.23	0.91	45	985	24	4 292	608.9	1979	80 06 - SUSP 80 12
64	4.42	0.292	0.30	0.95	14	927	25	4 220	608.1	1963	87 05 - SUSP 89 09
40	9.45	0.320	0.29	0.97	9	972	33	4 010	592.2	1972	85 12 - GPP
80	3.36	0.300	0.29	0.99	12	956	24	4 080	564.6	1978	85 12 - SUSP 89 01
32	3.53	0.310	0.32	0.97	20	940	35	4 030	568.2	1983	86 12
16	6.40	0.300	0.35	0.97	18	930	25		634.4	1985	89 08
1 107					14	910	24	4 790	643.8	1969	89 12
493	2.05	0.290	0.26	0.96							
614	2.46	0.290	0.26	0.96							- GPP
503					20	898	28	4 730	628.3	1971	87 12
109	2.58	0.307	0.16	0.96							
394	2.77	0.300	0.16	0.96							- GPP
64	3.70	0.310	0.29	0.96	16	921	10	5 020	610.8	1973	87 12
32	2.42	0.300	0.28	0.96	18	932	15	4 700	616.8	1977	83 04
48	1.00	0.260	0.45	0.97	12	945	29	4 672	650.8	1979	87 12 - GPP
16	3.00	0.300	0.16	0.96	14	934	30	4 529	622.5	1981	82 05
32	6.28	0.240	0.50	0.97	12	925	25	4 570	658.0	1982	83 05 - ABAND 87 10
248	1.89	0.300	0.22	0.96	18	933	20	4 635	622.6	1978	89 08
16	2.50	0.280	0.35	0.97	10	946	33	4 702	610.4	1983	88 12 - ABAND 84 08
32	1.00	0.280	0.30	0.96	20	898	28	4 690	652.5	1981	88 12 - SUSP 84 07
32	1.50	0.300	0.35	0.96	15	915	26	6 584	655.8	1981	89 12
16	1.00	0.280	0.45	0.97	13	913	24	4 708	610.8	1983	89 01
8	1.20	0.280	0.37	0.96	18	930	22		618.9	1980	89 08
699	1.70	0.270	0.38	0.96	18	921	24	4 522	624.1	1969	83 12

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
CHAUVIN SOUTH								
042-02W4 (CONTINUED)								
SPARKY A, B & GEN PET A TOTAL	12 670.0			634.0	1 499.0	2 133.0	1 472.6	660.4
PRIMARY AREA	5 178.0	0.05		259.0		259.0		
WATER FLOOD AREA	7 495.0	0.05	0.20	375.0	1 499.0	1 874.0		
GENERAL PETROLEUM B	9.3	0.10		1.0		1.0	0.6	0.4
REX A	90.4	<0.02		1.0		1.0	1.0	
LLOYDMINSTER A	391.0	0.05		19.6		19.6	11.2	8.4
LLOYDMINSTER C TOTAL	12 600.0			756.0	171.0	927.0	632.3	294.7
PRIMARY AREA	9 180.0	0.06		551.0		551.0		
WATER FLOOD AREA	3 420.0	0.06	0.05	205.0	171.0	376.0		
LLOYDMINSTER E	430.0	0.10		43.0		43.0	16.8	26.2
LLOYDMINSTER F	373.0	<0.02		6.9		6.9	2.5	4.4
LLOYDMINSTER I	162.0	0.05		8.1		8.1	0.3	7.8
LLOYDMINSTER J	157.0	0.05		7.9		7.9	2.0	5.9
LLOYDMINSTER K	85.6	0.05		4.3		4.3	0.1	4.2
DINA A	107.0	<0.01		0.1		0.1	0.1	
DINA B	186.0	<0.01		0.2		0.2	0.2	
DINA C	571.0	0.05		28.5		28.5	1.0	27.5
CAMROSE A	22.2	0.10		2.2		2.2	0.5	1.7
LEDUC A	321.0	0.05		16.1		16.1	0.9	15.2
CHERHILL 056-05W5								
BANFF B	1 000.0	0.06		60.0		60.0	41.3	18.7
BANFF C	1 260.0	0.10		126.0		126.0	41.2	84.8
BANFF F	13 800.0	0.10		1 380.0		1 380.0	249.2	1 130.8
BANFF Q	113.0	<0.01		0.2		0.2	0.2	
BANFF V	217.0	0.03		6.5		6.5	4.8	1.7
CHIGWELL 041-24W4								
MANNVILLE C	342.0	<0.01		1.7		1.7	1.7	
CHIN COULEE 007-14W4								
GLAUCONITIC A	221.0	0.05		11.1		11.1	0.9	10.2
GLAUCONITIC B	134.0	0.05		6.7		6.7	1.3	5.4
BASAL MANNVILLE A TOTAL	4 058.0			406.0	702.0	1 108.0	872.9	235.1
PRIMARY AREA	548.0	0.10		54.8		54.8		
WATER FLOOD AREA	3 510.0	0.10	0.20	351.0	702.0	1 053.0		
SAWTOOTH A	30.5	0.10		3.1		3.1	0.8	2.3
COMPEER 033-02W4								
LOWER MANNVILLE A	118.0	<0.07		8.2		8.2	8.2	
LOWER MANNVILLE B	158.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE C	239.0	0.08		19.1		19.1	9.2	9.9
BANFF A	740.0	0.05		37.0		37.0	6.2	30.8
BANFF B	255.0	0.08		20.4		20.4	13.5	6.9
CONNORSVILLE 025-15W4								
LOWER MANNVILLE C	27.0	<0.01		0.1		0.1		0.1
CONRAD 006-15W4								
ELLIS	2 540.0	0.21		533.0		533.0	516.4	16.6
SAWTOOTH A	170.0	0.10		17.0		17.0	1.0	16.0
SAWTOOTH B	72.6	0.10		7.3		7.3	5.6	1.7
SAWTOOTH C	89.4	0.10		8.9		8.9	1.7	7.2
COUNTESS 021-16W4								
UPPER MANNVILLE B TOTAL	3 920.0			588.0	900.0	1 488.0	1 241.6	246.4
PRIMARY AREA	320.0	0.15		48.0		48.0		
WATER FLOOD AREA	3 600.0	0.15	0.25	540.0	900.0	1 440.0		
UPPER MANNVILLE D TOTAL	12 500.0			1 250.0	4 920.0	6 170.0	5 525.2	644.8
PRIMARY AREA	202.0	0.10		20.2		20.2		
WATER FLOOD AREA	12 300.0	0.10	0.40	1 230.0	4 920.0	6 150.0		
UPPER MANNVILLE F TOTAL	1 810.0			170.0	445.0	615.0	566.2	48.8
PRIMARY AREA	220.0	0.05		11.0		11.0		
WATER FLOOD AREA	1 590.0	0.10	0.28	159.0	445.0	604.0		
UPPER MANNVILLE H WATER FLOOD	5 545.0	0.10	0.30	554.5	1 663.5	2 218.0	2 084.9	133.1

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
1 529					16	910	31	4 620	653.2	1952	89 11
696	3.93	0.290	0.40	0.96							
833	4.40	0.290	0.30	0.96							- GPP
16	0.40	0.270	0.42	0.93	28	934	30	3 524	640.4	1985	86 03 - SUSP 87 12
16	4.50	0.230	0.40	0.91	14	985	28	6 710	627.8	1983	84 02 - ABAND 86 01
32	6.53	0.300	0.35	0.96	14	952	18	5 100	659.7	1963	79 08 - GPP
2 080					14	940	25	4 520	665.1	1953	89 07 - GPP
1 514	3.20	0.290	0.32	0.96							
566	3.19	0.290	0.32	0.96							
128	1.84	0.280	0.32	0.96	14	940	24	4 960	693.8	1969	88 12
96	1.90	0.300	0.29	0.96	14	904	27	4 670	650.9	1974	80 12
16	6.00	0.270	0.35	0.96	18	954	18	4 685	691.7	1983	84 07 - SUSP 89 02
16	6.00	0.260	0.35	0.97	20	955	27	4 917	650.5	1984	89 12
16	3.00	0.280	0.35	0.98	14	939	26	5 146	668.0	1987	88 06 - SUSP 89 02
16	3.05	0.300	0.24	0.97	13	947	27	5 070	672.1	1978	79 01 - SUSP 78 09
16	5.50	0.290	0.24	0.96	12	958	33	3 976	703.3	1985	86 05
74	4.00	0.280	0.29	0.97	9	935	28	4 146	676.6	1988	89 03
16	2.80	0.120	0.57	0.96	13	985	31	4 453	642.0	1969	88 09 - SUSP 89 02
32	6.40	0.220	0.28	0.99	15	960	25	4 785	657.4	1985	88 10
249	5.40	0.140	0.40	0.89	51	915	43	10 890	1 393.2	1969	82 10
128	9.63	0.180	0.34	0.86	48	911	64	10 680	1 387.9	1977	87 04
1 064	14.38	0.170	0.39	0.87	46	910	40	9 500	1 465.3	1981	86 06
32	3.78	0.196	0.45	0.87	50	904	45	9 084	1 286.6	1984	85 12 - ABAND 86 01
32	11.54	0.110	0.40	0.89	44	935	50	11 210	1 376.6	1981	86 12
65	4.88	0.170	0.25	0.85	69	887	50	11 310	1 485.6	1969	74 12 - ABAND 73 08
16	13.50	0.130	0.19	0.97	10	926	33	8 830	877.0	1985	85 08
16	4.50	0.250	0.24	0.98	10	958	27	9 767	928.8	1987	87 01 - SUSP 88 06
1 414					5	915	32	9 791	940.4	1960	89 12 - GPP
190	2.56	0.194	0.40	0.97							
1 224	2.54	0.194	0.40	0.97							
16	1.60	0.200	0.33	0.89	47	953	31	10 048	962.2	1987	87 10 - SUSP 88 06
32	2.80	0.230	0.37	0.92	35	934	32	6 158	898.2	1978	79 10 - ABAND 89 08
16	5.00	0.280	0.25	0.94	27	959	28	7 212	885.3	1980	83 12 - SUSP 80 12
64	2.14	0.320	0.42	0.94	25	960	28	6 324	842.8	1984	87 12
112	5.90	0.190	0.38	0.95	18	959	36	6 856	845.8	1955	89 01
32	4.13	0.290	0.30	0.95	21	937	28	7 680	824.8	1984	87 12
64	1.50	0.080	0.60	0.89	52	893	32	8 890	990.9	1978	79 02 - ABAND 88 08
1 475	1.52	0.198	0.35	0.88	53	904	30	10 340	926.6	1944	85 12 - GPP
64	3.03	0.180	0.45	0.88	52	890	27	9 539	972.8	1986	87 03
32	2.80	0.155	0.45	0.95	19	908	29	8 930	976.3	1983	83 11
32	2.00	0.210	0.30	0.95	18	921	36	10 004	968.0	1980	81 08
624					45	887	37	10 780	1 083.8	1965	87 12
96	2.24	0.220	0.24	0.89							
528	4.09	0.240	0.22	0.89							- GPP
1 621					45	904	36	10 840	1 122.2	1967	89 12
50	2.62	0.234	0.26	0.89							- GPP
1 571	4.77	0.240	0.20	0.89							- GPP
226					45	887	34	10 850	1 075.3	1967	88 01 - GPP
64	2.51	0.220	0.30	0.89							
162	6.40	0.230	0.25	0.89							
679	5.35	0.220	0.22	0.89	50	898	32	11 090	1 072.0	1968	86 12 - GPP

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
COUNTRESS 021-16W4 (CONTINUED)								
UPPER MANNVILLE J	687.0	0.10		68.7		68.7	54.5	14.2
UPPER MANNVILLE L	208.0	0.10		20.8		20.8	18.2	2.6
UPPER MANNVILLE M	556.0	0.15	0.15	83.4	83.4	167.0	134.8	32.2
WATER FLOOD								
UPPER MANNVILLE O	2 540.0	0.15	0.32	381.0	814.0	1 200.0	791.9	408.1
WATER FLOOD								
UPPER MANNVILLE T	51.0	<0.03		1.2		1.2	1.2	
UPPER MANNVILLE U	170.0	0.10		17.0		17.0	6.4	10.6
UPPER MANNVILLE Y	144.0	0.10		14.4		14.4		14.4
UPPER MANNVILLE HH	120.0	0.15		18.0		18.0	7.5	10.5
UPPER MANNVILLE II	191.0	0.10		19.1		19.1	10.4	8.7
UPPER MANNVILLE JJ	17.7	0.10		1.8		1.8	1.1	0.7
UPPER MANNVILLE KK	133.0	0.05		6.7		6.7	3.5	3.2
UPPER MANNVILLE MM	301.0	0.10		30.1		30.1	6.7	23.4
LOWER MANNVILLE A	211.0	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE C	319.0	<0.01		0.6		0.6	0.6	
LOWER MANNVILLE F	134.0	0.08		10.7		10.7	6.9	3.8
LOWER MANNVILLE G	251.0	0.05		12.6		12.6	5.3	7.3
LOWER MANNVILLE H	196.0	0.02		3.9		3.9	0.8	3.1
LOWER MANNVILLE I	61.7	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE J	105.0	<0.01		0.3		0.3	0.3	
LOWER MANNVILLE K	87.0	<0.01		0.2		0.2	0.2	
LOWER MANNVILLE L	257.0	0.02		5.1		5.1	0.7	4.4
LOWER MANNVILLE N	124.0	0.05		6.2		6.2	0.1	6.1
LOWER MANNVILLE O	65.6	0.05		3.3		3.3	0.6	2.7
LOWER MANNVILLE P	117.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE Q	218.0	<0.01		0.1		0.1	0.1	
OSTRACOD D	130.0	0.10		13.0		13.0	7.1	5.9
OSTRACOD E &	144.0	0.05		7.2		7.2	5.5	1.7
BASAL QUARTZ B								
BASAL QUARTZ F	21.0	<0.01		0.1		0.1	0.1	
PEKISKO B	66.6	<0.01		0.1		0.1	0.1	
PEKISKO C	88.1	<0.01		0.1		0.1	0.1	
DINA 045-01W4								
SPARKY	863.0	0.10		86.3		86.3	79.0	7.3
SPARKY B	134.0	0.05		6.7		6.7	3.5	3.2
SPARKY C	83.4	0.05		4.2		4.2	0.1	4.1
EDGERTON 045-04W4								
COLONY G	73.1	0.05		3.7		3.7	1.3	2.4
SPARKY A	95.2	0.05		4.8		4.8	1.5	3.3
SPARKY B	15.1	<0.03		0.4		0.4	0.4	
GENERAL PETROLEUM A	325.0	<0.01		0.1		0.1	0.1	
LLOYDMINSTER A	151.0	<0.04		6.0		6.0	6.0	
LLOYDMINSTER B	200.0	<0.01		0.5		0.5	0.5	
LLOYDMINSTER C	53.1	<0.02		0.6		0.6	0.6	
LLOYDMINSTER D	55.6	<0.01		0.1		0.1	0.1	
LLOYDMINSTER E	131.0	0.08		10.5		10.5	8.6	1.9
LLOYDMINSTER F	105.0	0.10		10.5		10.5	4.4	6.1
LLOYDMINSTER G	132.0	0.05		6.6		6.6	3.3	3.3
LLOYDMINSTER H	83.9	0.10		8.4		8.4	6.2	2.2
DETITAL B	9.8	0.01		0.1		0.1		0.1
D-2 D	2 260.0	0.10		226.0		226.0	66.2	159.8
D-2A & CAMROSE A	909.0	0.10		90.9		90.9	25.1	65.8
ENCHANT 014-16W4								
UPPER MANNVILLE B	219.0	0.06		13.1		13.1	12.0	1.1
UPPER MANNVILLE D	605.0	<0.01		2.6		2.6	2.6	
UPPER MANNVILLE H	40.4	0.10		4.0		4.0	3.8	0.2
UPPER MANNVILLE I	112.0	0.06		6.7		6.7	3.9	2.8
UPPER MANNVILLE M	50.7	<0.01		0.2		0.2	0.2	
UPPER MANNVILLE S	131.0	0.10		13.1		13.1	1.3	11.8
UPPER MANNVILLE T	26.7	0.10		2.7		2.7	0.1	2.6
LOWER MANNVILLE B	332.0	<0.01		1.2		1.2	1.2	
LOWER MANNVILLE E	122.0	0.10		12.2		12.2	0.4	11.8
LOWER MANNVILLE F	178.0	0.05		8.9		8.9	2.6	6.3
LOWER MANNVILLE I	206.0	0.05		10.3		10.3	2.8	7.5
SUNBURST A	189.0	<0.01		1.8		1.8	1.8	
SUNBURST B	94.6	0.10		9.5		9.5	2.2	7.3
ELLIS A	243.0	<0.03		5.6		5.6	5.6	

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
208	2.41	0.220	0.30	0.89	44	887	33	10 950	1 075.8	1970	86 12 - GPP
65	2.29	0.207	0.24	0.89	45	881	39	10 690	1 082.3	1971	72 08
32	14.02	0.230	0.38	0.86	59	892	38	11 130	1 079.9	1972	78 06 - GPP
170	8.14	0.260	0.17	0.85	51	915	36	10 670	1 067.7	1973	77 12 - GPP
65	0.91	0.150	0.34	0.86	60	892	32	10 230	1 049.0	1977	78 12 - SUSP 83 10
32	4.00	0.230	0.35	0.89	41	890	33	9 720	1 079.5	1978	79 02 - GPP
64	3.50	0.120	0.40	0.89	40	861	36	9 760	1 056.0	1980	81 09 - GPP
50	1.50	0.230	0.22	0.89	43	887	37	11 056	1 108.3	1983	87 12 - GPP
32	3.40	0.240	0.18	0.89	45	887	38	9 134	1 134.0	1984	85 03
16	1.50	0.160	0.48	0.89	47	900	35	9 392	1 077.3	1984	85 03
32	5.00	0.170	0.43	0.86	55	855	38	9 347	1 216.3	1985	89 12 - GPP
64	3.40	0.210	0.26	0.89	45	823	32	10 824	1 074.1	1986	86 10
32	5.79	0.250	0.50	0.90	41	898	34	11 480	1 105.8	1968	73 12 - ABAND 72 11
65	2.74	0.270	0.25	0.89	42	915	38	10 800	1 139.0	1974	83 12 - ABAND 77 01
32	4.30	0.190	0.42	0.89	48	892	34	11 066	1 131.1	1975	85 12
64	4.00	0.160	0.28	0.85	66	864	34	10 800	1 113.9	1979	80 01
64	5.00	0.160	0.55	0.85	75	869	36	10 635	1 347.5	1980	84 05 - SUSP 88 01
64	1.80	0.140	0.55	0.85	53	855	41	10 252	1 334.9	1980	88 12 - SUSP 81 05
32	3.60	0.170	0.40	0.89	38	910	37	11 214	1 098.6	1981	82 09 - ABAND 83 03
64	2.00	0.160	0.50	0.85	58	865	40	10 797	1 362.2	1981	83 10 - SUSP 84 05
64	7.50	0.140	0.55	0.85	76	869	36	10 272	1 357.5	1981	84 05 - SUSP 88 01
32	3.30	0.220	0.40	0.89	46	910	36	10 794	1 109.0	1983	84 06
32	2.56	0.150	0.40	0.89	37	862	35	10 685	1 085.3	1984	84 11 - SUSP 88 07
32	3.80	0.180	0.40	0.89	44	900	34	10 385	1 102.6	1979	85 03 - SUSP 85 01
64	4.70	0.165	0.50	0.88	47	898	38	10 178	1 286.5	1984	85 06 - ABAND 86 08
85	1.50	0.200	0.42	0.88	48	887	38	9 898	1 249.2	1985	87 12 - GPP
64	2.38	0.174	0.36	0.85	47	887	37	10 180	1 293.9	1958	88 09 - GPP
32	1.30	0.175	0.68	0.90	40	905	35	11 010	1 047.8	1984	84 12 - SUSP 84 10
64	4.50	0.040	0.35	0.89	43	864	38	10 300	1 174.3	1980	85 12 - SUSP 83 09
64	3.60	0.060	0.25	0.85	64	875	39	10 472	1 363.7	1981	84 12 - SUSP 85 08
226	2.06	0.290	0.32	0.94	13	972	25	4 340	554.7	1948	85 12 - GPP
32	2.79	0.290	0.46	0.96	10	961	28	4 204	545.2	1985	86 09
32	1.50	0.280	0.36	0.97	13	913	24	4 116	568.8	1988	88 07 - SUSP 89 08
16	2.90	0.250	0.35	0.97	13	938	25	4 052	644.0	1979	82 06
16	8.00	0.200	0.60	0.93	27	855	29	3 445	648.0	1984	85 03
16	1.00	0.280	0.65	0.96	12	955	25	4 217	637.5	1980	86 01 - ABAND 88 08
64	4.20	0.260	0.50	0.93	27	855	29	4 773	640.2	1984	85 05 - SUSP 87 08
16	5.18	0.240	0.21	0.96	12	940	25	4 275	685.5	1975	78 12 - SUSP 83 05
16	4.90	0.330	0.20	0.96	12	934	25	4 260	674.5	1977	78 05 - SUSP 85 01
16	2.00	0.270	0.36	0.96	14	959	33	4 312	655.2	1980	80 07 - SUSP 84 08
16	2.00	0.270	0.33	0.96	12	951	25	4 715	686.5	1980	84 12 - SUSP 83 05
32	1.80	0.300	0.21	0.96	12	946	25	4 311	703.9	1979	85 12 - GPP
16	2.60	0.350	0.26	0.97	12	965	28	4 083	667.7	1985	88 04
16	3.70	0.310	0.25	0.96	17	959	28	3 779	662.7	1980	82 04
16	2.47	0.280	0.21	0.96	16	946	28	4 240	669.0	1976	77 12
16	0.60	0.190	0.44	0.96	14	959	28	4 264	633.5	1984	88 12 - SUSP 84 02
341	6.35	0.170	0.36	0.96	17	959	25	4 166	639.6	1983	87 07
110	7.79	0.170	0.35	0.96	17	959	25	4 552	646.6	1983	87 08
64	2.65	0.240	0.40	0.89	48	915	30	11 310	978.7	1966	82 12 - GPP
361	1.52	0.200	0.38	0.89	56	915	27	10 650	983.9	1968	70 02 - SUSP 70 12
16	3.10	0.140	0.35	0.90	46	919	23	11 470	1 014.1	1977	79 12 - SUSP 88 12
65	1.83	0.180	0.38	0.85	62	855	24	10 870	1 015.3	1977	86 12
16	2.50	0.210	0.33	0.90	35	931	60	9 850	1 041.5	1981	83 02 - ABAND 86 09
32	4.00	0.140	0.19	0.90	42	913	33	10 931	994.0	1987	88 06
16	1.70	0.180	0.38	0.88	57	927	34	12 370	1 090.0	1988	88 08
65	4.57	0.220	0.40	0.85	53	855	38	11 510	1 040.9	1968	69 06 - ABAND 69 09
32	3.00	0.220	0.35	0.89	15	922	24	12 130	1 093.9	1978	88 07
64	3.00	0.160	0.35	0.89	53	855	34	11 180	999.8	1978	79 12
16	10.00	0.210	0.28	0.85	67	875	32	11 146	1 023.0	1988	89 09
65	3.96	0.150	0.40	0.82	82	855	38	11 190	1 032.7	1976	84 12 - SUSP 82 12
16	6.00	0.170	0.39	0.95	18	934	33	10 744	1 018.0	1987	89 05
64	3.00	0.240	0.40	0.88	15	880	30	11 253	1 028.1	1953	89 12 - SUSP 87 09

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
ENCHANT 014-16W4 (CONTINUED)								
ELLIS B	168.0	0.20		33.6		33.6	17.9	15.7
ELLIS C	800.0	0.30		240.0		240.0	132.3	107.7
ELLIS D	1 690.0	0.25		423.0		423.0	239.8	183.2
ELLIS E	66.6	0.25		16.7		16.7	0.6	16.1
ESTHER 022-02W4								
UPPER MANNVILLE B	1 000.0	0.10		100.0		100.0	94.9	5.1
UPPER MANNVILLE F	88.0	0.10		8.8		8.8	3.9	4.9
UPPER MANNVILLE I	145.0	0.10		14.5		14.5	10.2	4.3
UPPER MANNVILLE J	68.4	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE K	71.9	0.05		3.6		3.6	1.8	1.8
UPPER MANNVILLE L	180.0	0.20		36.0		36.0	20.2	15.8
BANFF G	59.1	0.15		8.9		8.9	5.4	3.5
BANFF H	30.8	0.05		1.5		1.5	0.9	0.6
BAKKEN A	57.9	<0.01		0.2		0.2	0.2	
EYREMORE 018-18W4								
LOWER MANNVILLE A	331.0	<0.01		0.1		0.1	0.1	
FERGUSON 003-17W4								
LOWER MANNVILLE A	373.0	0.05		18.7		18.7	6.1	12.6
GILBY 041-03W5								
RUNDLE K	625.0	0.02		12.6		12.6	9.8	2.8
GLADYS 020-27W4								
RUNDLE D	366.0	<0.01		0.1		0.1	0.1	
GLENEVIS 055-04W5								
BANFF	3 620.0	0.45		1 630.0		1 630.0	1 376.0	254.0
GRAINDALE 026-02W4								
LOWER MANNVILLE C	83.0	<0.01		0.8		0.8	0.8	
LOWER MANNVILLE D	83.0	<0.01		0.1		0.1	0.1	
GRAND FORKS 011-13W4								
UPPER MANNVILLE A	170.0	<0.01		1.0		1.0	1.0	
UPPER MANNVILLE B	2 971.0			446.0	797.0	1 243.0	1 024.9	218.1
TOTAL								
PRIMARY AREA	21.2	0.15		3.2		3.2		
WATER FLOOD AREA	2 950.0	0.15	0.27	443.0	797.0	1 240.0		
UPPER MANNVILLE E	74.3	0.10		7.4		7.4	3.4	4.0
UPPER MANNVILLE F	198.0	0.10		19.8		19.8	8.2	11.6
LOWER MANNVILLE D	15 600.0	0.12	0.28	1 870.0	4 360.0	6 230.0	5 162.4	1 067.6
WATER FLOOD								
LOWER MANNVILLE H	524.0	0.30	0.05	157.0	26.2	183.0	135.1	47.9
WATER FLOOD								
LOWER MANNVILLE M	663.0	0.20		133.0		133.0	57.6	75.4
LOWER MANNVILLE N	415.0	0.10		41.5		41.5	17.4	24.1
LOWER MANNVILLE X	148.0	0.05		7.4		7.4	1.8	5.6
LOWER MANNVILLE Y	80.2	<0.05		3.3		3.3	3.3	
LOWER MANNVILLE CC	24.6	0.10		2.5		2.5	0.6	1.9
LOWER MANNVILLE EE	35.6	<0.03		1.0		1.0	1.0	
LOWER MANNVILLE NN	45.1	<0.02		0.7		0.7	0.7	
LOWER MANNVILLE QQ	56.9	<0.01		0.2		0.2	0.2	
LOWER MANN K & V	4 500.0	0.15	0.35	675.0	1 570.0	2 250.0	1 755.2	494.8
WATER FLOOD								
SAWTOOTH A	1 013.0	0.20		203.0		203.0	120.1	82.9
SAWTOOTH B	580.0	0.10		58.0		58.0	27.3	30.7
SAWTOOTH C	435.0	0.15		65.3		65.3	15.2	50.1
SAWTOOTH D	1 727.0	0.30		518.0		518.0	194.2	323.8
SAWTOOTH E	21.9	0.10		2.2		2.2	1.7	0.5
SAWTOOTH F	231.0	0.10		23.1		23.1	13.6	9.5
SAWTOOTH G	33.6	0.10		3.4		3.4	1.8	1.6
SAWTOOTH H	71.3	0.15		10.7		10.7	7.0	3.7
SAWTOOTH I	691.0	0.10		69.1		69.1	52.2	16.9
SAWTOOTH J	448.0	0.25		112.0		112.0	45.3	66.7
SAWTOOTH K	32.4	<0.01		0.3		0.3	0.3	
SAWTOOTH L	1 530.0	0.40		612.0		612.0	319.7	292.3
SAWTOOTH N	1 670.0	0.25		418.0		418.0	275.0	143.0
SAWTOOTH O	3 727.0	0.30		1 118.0		1 118.0	846.7	271.3

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	2.75	0.220	0.50	0.87	53	934	28	10 815	989.3	1983	89 12
128	3.92	0.240	0.30	0.95	15	875	34	11 052	991.4	1985	89 01 - GPP
545	2.44	0.220	0.32	0.85	67	875	32	11 135	990.1	1981	88 12 - GPP
16	3.00	0.240	0.32	0.85	74	880	35	10 826	1 003.8	1987	88 11 - SUSP 89 09
384	1.46	0.250	0.25	0.95	24	959	29	7 330	720.5	1977	83 12
32	2.70	0.170	0.37	0.95	22	950	25	7 081	759.0	1979	83 12 - GPP
64	1.78	0.200	0.33	0.95	20	955	29	7 105	732.8	1984	87 01
16	3.00	0.300	0.50	0.95	21	929	27	7 970	812.0	1984	85 08 - SUSP 85 06
32	1.20	0.270	0.27	0.95	40	957	27	6 521	735.6	1985	86 03
22	4.50	0.320	0.40	0.95	20	948	30	4 200	793.9	1969	88 12 - GPP
16	2.70	0.240	0.40	0.95	21	946	29	7 413	826.9	1984	87 12
16	2.30	0.160	0.45	0.95	21	959	26	7 541	812.1	1982	85 04 - GPP
16	3.20	0.170	0.30	0.95	30	973	29	7 120	790.0	1984	88 12 - SUSP 86 04
64	5.20	0.180	0.35	0.85	67	881	33	9 880	1 152.9	1978	82 12 - ABAND 79 10
64	7.15	0.150	0.44	0.97	10	935	30	9 038	908.7	1969	83 05
65	19.14	0.075	0.17	0.81	66	915	69	15 400	2 056.8	1971	75 12
32	25.50	0.120	0.55	0.83	74	948	54	18 530	2 032.5	1979	82 12 - ABAND 82 02
537	10.49	0.113	0.36	0.89	43	934	43	10 694	1 325.9	1954	79 12 - GPP
16	4.00	0.210	0.35	0.95	21	975	30	8 887	936.6	1980	81 01 - ABAND 89 08
16	4.20	0.200	0.35	0.95	25	993	33	8 334	967.7	1980	81 04 - SUSP 83 02
65	2.13	0.200	0.35	0.95	18	921	36	10 590	912.6	1972	73 03 - ABAND 73 04
283					17	887	34	10 750	921.7	1971	88 04
16	1.10	0.190	0.34	0.96							- GPP
267	5.84	0.270	0.27	0.96							
32	2.20	0.200	0.45	0.96	18	886	34	10 328	912.1	1983	88 12
32	5.00	0.230	0.44	0.96	14	905	32	9 436	907.5	1984	85 05
865	9.92	0.250	0.25	0.97	30	881	31	10 620	907.7	1968	85 09 - GPP
86	3.17	0.260	0.23	0.96	21	934	32	10 620	952.2	1971	84 09 - GPP
102	4.04	0.242	0.30	0.95	21	921	33	10 766	898.9	1974	89 10
64	3.81	0.230	0.22	0.95	23	899	34	10 780	902.8	1971	85 09
16	5.20	0.240	0.23	0.96	16	933	33	10 284	901.0	1981	82 12
32	1.23	0.300	0.30	0.97	9	952	34	10 518	929.7	1972	77 12 - SUSP 85 12
32	1.50	0.120	0.55	0.95	18	888	34	8 518	912.4	1981	82 12
32	1.20	0.150	0.35	0.95	16	886	31	10 507	867.8	1982	88 12 - SUSP 86 07
32	1.70	0.150	0.43	0.97	11	904	28	11 672	869.4	1984	89 12 - SUSP 86 09
32	2.00	0.180	0.48	0.95	16	887	31	9 142	876.0	1988	88 08 - ABAND 88 09
384	5.88	0.250	0.16	0.95	18	892	32	11 301	908.9	1973	85 09 - GPP
202	3.99	0.210	0.37	0.95	18	892	42	10 720	884.2	1965	88 12 - GPP
220	2.53	0.180	0.39	0.95	18	909	42	10 760	934.7	1978	86 05 - GPP
48	5.70	0.250	0.33	0.95	20	922	30	10 370	897.5	1980	89 12 - GPP
250	6.20	0.230	0.49	0.95	20	912	31	10 531	938.3	1980	88 12 - GPP
16	1.00	0.240	0.40	0.95	17	935	39	10 819	951.0	1981	86 12
96	2.97	0.140	0.39	0.95	18	903	42	10 846	1 174.0	1979	89 01
32	0.90	0.150	0.18	0.95	18	931	42	10 561	933.2	1980	83 12
64	1.00	0.170	0.31	0.95	20	94	37	10 563	953.5	1978	88 12
128	3.20	0.240	0.26	0.95	18	892	42	10 124	900.6	1958	85 12 - GPP
138	2.54	0.240	0.44	0.95	19	891	32	10 595	895.4	1983	89 10 - GPP
16	2.81	0.217	0.65	0.95	20	90	33	10 268	932.9	1983	89 12 - SUSP 86 10
221	5.43	0.230	0.41	0.94	22	910	32	5 200	864.8	1979	89 10 - GPP
107	9.41	0.260	0.33	0.95	18	907	34	10 460	918.3	1984	88 11 - GPP
505	5.63	0.230	0.40	0.95	21	887	33	10 860	906.0	1966	88 12 - GPP

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
GRAND FORKS 011-13W4 (CONTINUED)								
SAWTOOTH Q	1 221.0	0.13		159.0		159.0	100.5	58.5
SAWTOOTH S	1 400.0	0.30		420.0		420.0	355.1	64.9
SAWTOOTH T	2 150.0	0.30		645.0		645.0	485.9	159.1
SAWTOOTH U	526.0	0.07		36.8		36.8	25.1	11.7
SAWTOOTH V	456.0	0.07		32.0		32.0	28.1	3.9
SAWTOOTH W	590.0	0.20		118.0		118.0	71.3	46.7
SAWTOOTH X	285.0	0.15		42.8		42.8	10.1	32.7
SAWTOOTH Y	211.0	0.10		21.1		21.1	13.0	8.1
SAWTOOTH Z	61.3	0.10		6.1		6.1	1.5	4.6
SAWTOOTH AA	56.6	0.10		5.7		5.7	0.9	4.8
SAWTOOTH CC	57.5	0.30		17.3		17.3	9.0	8.3
SAWTOOTH EE	314.0	0.10		31.4		31.4	8.9	22.5
SAWTOOTH FF	31.8	<0.01		0.1		0.1	0.1	
SAWTOOTH GG	592.0			118.0	14.6	133.0	79.4	53.6
TOTAL								
PRIMARY AREA	300.0	0.20		60.0		60.0		
WATER FLOOD AREA	292.0	0.20	0.05	58.0	14.6	73.0		
SAWTOOTH II	1 173.0	0.20		235.0		235.0	53.7	181.3
SAWTOOTH JJ	220.0	0.10		22.0		22.0	1.0	21.0
SAWTOOTH KK	283.0	0.10		28.3		28.3	12.3	16.0
SAWTOOTH LL	676.0	0.15		101.0		101.0	98.5	2.5
SAWTOOTH MM TOTAL	4 362.0	<0.30	0.15	1 298.0	608.0	1 906.0	1 511.5	394.5
PRIMARY AREA	72.3	0.15		10.8		10.8		
WATER FLOOD AREA	4 290.0	<0.30	0.15	1 287.0	608.0	1 895.0		
SAWTOOTH NN	1 436.0			216.0	219.0	435.0	285.3	149.7
TOTAL								
PRIMARY AREA	559.0	0.15		83.9		83.9		
WATER FLOOD AREA	877.0	0.15	0.25	132.0	219.0	351.0		
SAWTOOTH OO	2 060.0			300.0	700.0	1 000.0	769.7	230.3
TOTAL								
PRIMARY AREA	64.8	<0.01		0.1		0.1		
WATER FLOOD AREA	2 000.0	0.15	0.35	300.0	700.0	1 000.0		
SAWTOOTH PP	300.0	<0.02		3.4		3.4	3.4	
SAWTOOTH QQ	32.0	0.05		1.6		1.6	1.6	
SAWTOOTH RR	196.0	0.03		5.9		5.9	1.9	4.0
SAWTOOTH SS	2 048.0	0.30		614.0		614.0	324.2	289.8
SAWTOOTH VV	622.0	0.25		156.0		156.0	89.9	66.1
SAWTOOTH WW	3 348.0			670.0	900.0	1 570.0	1 081.9	488.1
TOTAL								
PRIMARY AREA	348.0	0.20		69.6		69.6		
WATER FLOOD AREA	3 000.0	0.20	0.30	600.0	900.0	1 500.0		
SAWTOOTH XX	54.7	<0.01		0.1		0.1		0.1
SAWTOOTH YY	29.9	0.05		1.5		1.5	0.5	1.0
SAWTOOTH ZZ	222.0	0.15		33.3		33.3	17.8	15.5
SAWTOOTH AAA	197.0	0.10		19.7		19.7	1.1	18.6
SAWTOOTH BBB	34.7	0.15		5.2		5.2	0.2	5.0
SAWTOOTH CCC	891.0	0.10		89.1		89.1	31.7	57.4
SAWTOOTH DDD	245.0	0.20		49.0		49.0	33.3	15.7
SAWTOOTH EEE	332.0	0.10		33.2		33.2	13.1	20.1
SAWTOOTH FFF	175.0	0.10		17.5		17.5	0.4	17.1
SAWTOOTH HHH	240.0	0.10		24.0		24.0	3.1	20.9
SAWTOOTH III	392.0	0.10		39.2		39.2	3.7	35.5
SAWTOOTH LLL	276.0	0.10		27.6		27.6	5.1	22.5
SAWTOOTH MMM	115.0	0.10		11.5		11.5	0.1	11.4
SAWTOOTH NNN	145.0	0.10		14.5		14.5	4.5	10.0
SAWTOOTH ODD	198.0	0.05		9.9		9.9	1.4	8.5
SAWTOOTH PPP	285.0	0.10		28.5		28.5	5.4	23.1
SAWTOOTH QQQ	124.0	0.25		31.0		31.0		31.0
ARCS A	196.0	0.10		19.6		19.6		19.6
GREENCOURT 059-09W5								
PEKISKO A & JURASSIC A	2 510.0	0.05		126.0		126.0	103.2	22.8
PEKISKO C	136.0	<0.01		0.5		0.5	0.5	
GREENCOURT EAST 059-06W5								
JURASSIC A	88.0	<0.01		0.6		0.6	0.6	
BANFF A	180.0	<0.01		0.3		0.3	0.3	
BANFF B	135.0	<0.01		0.6		0.6	0.6	

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
213	4.00	0.260	0.42	0.95	16	921	31	10 472	936.3	1975	88 06 - GPP
222	4.29	0.230	0.32	0.94	21	886	33	10 600	813.8	1965	86 12 - GPP
219	5.99	0.240	0.28	0.95	21	886	33	10 300	880.5	1965	86 12 - GPP
96	5.02	0.230	0.50	0.95	15	905	34	10 172	898.5	1953	88 12 - GPP
64	5.17	0.250	0.42	0.95	15	905	34	10 260	923.2	1953	87 05 - GPP
80	5.41	0.230	0.37	0.94	25	910	32	10 515	868.9	1980	87 12 - GPP
32	7.80	0.240	0.50	0.95	20	920	30	10 222	915.3	1985	86 02
32	4.20	0.220	0.25	0.95	14	900	34	10 086	907.0	1985	86 03 - GPP
32	2.10	0.190	0.50	0.96	16	906	47	10 269	938.4	1985	86 03
64	1.21	0.160	0.52	0.95	20	911	30	10 090	940.7	1985	89 05
16	2.50	0.275	0.45	0.95	15	905	34	1 012	906.3	1985	88 12
48	5.54	0.230	0.46	0.95	19	899	33	10 086	929.6	1986	87 11 - GPP
16	1.22	0.260	0.35	0.95	19	887	34	10 410	943.1	1974	83 12 - SUSP 76 05
136					21	892	33	10 580	940.9	1973	89 12
72	2.12	0.280	0.26	0.95							
64	2.50	0.260	0.26	0.95							- GPP
48	14.70	0.250	0.30	0.95	18	904	33	9 761	912.1	1986	89 06 - GPP
64	4.90	0.180	0.59	0.95	15	922	34	9 445	900.1	1986	87 03
108	2.32	0.200	0.40	0.94	24	911	30	10 805	914.1	1987	88 05
57	7.47	0.260	0.35	0.94	20	904	33	10 790	902.8	1965	80 12 - GPP
1 123					18	887	31	10 780	917.7	1957	89 10
16	2.80	0.280	0.40	0.96							
1 107	2.27	0.250	0.29	0.96							- GPP
173					40	946	32	10 650	908.9	1971	88 12 - GPP
64	5.83	0.240	0.35	0.96							
109	5.37	0.240	0.35	0.96							
461					21	887	33	10 760	933.6	1971	85 12
16	2.25	0.250	0.25	0.96							
445	2.40	0.260	0.25	0.96							- GPP
32	6.10	0.270	0.40	0.95	19	887	83	10 310	897.3	1973	85 12
16	1.29	0.180	0.12	0.98	10	946	21	10 449	948.7	1978	88 12 - SUSP 86 08
64	2.08	0.250	0.33	0.88	50	921	34	10 834	963.3	1979	82 09
256	4.90	0.250	0.29	0.92	64	941	21	10 515	955.3	1954	88 12 - GPP
96	5.20	0.230	0.43	0.95	18	892	42	10 583	894.5	1979	88 12 - GPP
572					31	885	32	10 665	926.9	1983	88 12 - GPP
64	3.41	0.256	0.33	0.93							
508	3.60	0.255	0.33	0.96							
32	3.00	0.200	0.70	0.95	16	886	31	10 257	858.0	1983	83 11 - ABAND 89 03
16	1.80	0.180	0.40	0.96	22	895	32	10 412	910.4	1984	88 07
16	7.70	0.250	0.25	0.96	22	895	32	10 424	911.9	1984	84 10 - GPP
64	4.40	0.210	0.65	0.95	27	891	34	10 842	920.3	1987	87 10
16	1.70	0.210	0.36	0.95	14	906	34	9 550	910.9	1987	87 12
80	17.90	0.250	0.29	0.95	14	899	34		908.2	1987	88 01 - GPP
48	4.23	0.209	0.38	0.93	31	887	32		927.7	1987	88 03 - GPP
64	3.35	0.270	0.37	0.91	31	887	32	9 597	917.6	1987	88 03
64	1.90	0.220	0.31	0.95	16	886	31	9 667	879.1	1987	88 03 - SUSP 88 05
16	9.00	0.237	0.26	0.95	18	907	34	9 265	913.0	1988	88 06 - GPP
32	8.95	0.240	0.40	0.95	18	907	34		930.6	1988	89 05
16	10.50	0.240	0.28	0.95	14	906	34	9 343	918.9	1988	88 08 - GPP
16	5.00	0.240	0.37	0.95	14	906	34		912.5	1988	88 10 - GPP
16	5.80	0.250	0.34	0.95	14	906	34		926.1	1988	88 11
32	5.00	0.210	0.38	0.95	14	905	34		922.0	1988	89 03
123	2.30	0.200	0.47	0.95	14	906	34		925.5	1988	89 12
64	2.31	0.180	0.51	0.95	14	906	34		885.1	1988	89 05 - GPP
32	7.20	0.130	0.22	0.84	69	927	39	12 573	1 266.3	1988	89 01
540	5.30	0.130	0.25	0.90	49	915	58	11 090	1 456.3	1961	89 12 - GPP
65	3.35	0.090	0.20	0.87	48	898	60	11 200	1 474.2	1968	69 01 - SUSP 70 05
32	3.00	0.180	0.40	0.85	46	915	70	10 799	1 247.8	1980	85 12 - SUSP 83 05
32	9.30	0.100	0.32	0.89	40	922	50	10 171	1 255.7	1981	84 12 - SUSP 84 04
32	10.78	0.074	0.40	0.88	43	934	51	9 353	1 245.8	1980	84 12 - SUSP 84 04

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
GUNN 055-03W5								
BANFF A	150.0	0.10		15.0		15.0	1.3	13.7
HAIRY HILL 055-14W4								
VIKING K	36.9	<0.01		0.1		0.1	0.1	
COLONY T	60.8	<0.01		0.1		0.1	0.1	
HARD 103-06W6								
PEKISKO B	981.0	<0.01		0.1		0.1	0.1	
HAYS 013-14W4								
LOWER MANNVILLE A	3 645.0			583.0	1 044.0	1 627.0	1 552.6	74.4
TOTAL								
PRIMARY AREA	45.0	0.16		7.2		7.2		
WATER FLOOD AREA	3 600.0	0.16	0.29	576.0	1 044.0	1 620.0		
LOWER MANNVILLE G	108.0	0.12		13.0		13.0	11.9	1.1
LOWER MANNVILLE H	85.5	0.05		4.3		4.3		4.3
LOWER MANNVILLE I	49.6	0.10		5.0		5.0	3.8	1.2
LOWER MANNVILLE M	734.0	0.15		110.0		110.0	71.1	38.9
LOWER MANNVILLE N	15.8	0.20		3.2		3.2	1.8	1.4
LOWER MANNVILLE O	1 802.0	0.15		270.0		270.0	61.3	208.7
LOWER MANNVILLE P	293.0	0.15		44.0		44.0	10.6	33.4
LOWER MANNVILLE Q	272.0	0.20		54.4		54.4	15.0	39.4
SAWTOOTH A	210.8	0.20		42.2		42.2	14.5	27.7
SAWTOOTH B	1 771.0	0.20		354.0		354.0	164.2	189.8
SAWTOOTH C	1 524.0	0.40		610.0		610.0	359.1	250.9
SAWTOOTH D	876.0	0.20		175.0		175.0	106.0	69.0
SAWTOOTH F	194.0	0.10		19.4		19.4	10.8	8.6
SAWTOOTH G	125.0	0.10		12.5		12.5	1.1	11.4
SAWTOOTH H	97.9	0.10		9.8		9.8	1.4	8.4
SAWTOOTH I	136.0	0.05		6.8		6.8	0.2	6.6
SAWTOOTH J	281.0	0.10		28.1		28.1	3.5	24.6
SAWTOOTH K	100.0	0.15		15.0		15.0	0.7	14.3
ARCS A	704.0	0.05		35.2		35.2	2.5	32.7
ARCS B	436.0	0.10		43.6		43.6	4.3	39.3
ARCS C	1 512.0	0.10		151.0		151.0	16.3	134.7
ARCS D	68.0	0.05		3.4		3.4		3.4
ARCS E	429.0	0.10		42.9		42.9	2.1	40.8
ARCS F	590.0	0.05		29.5		29.5	4.1	25.4
ARCS H	90.2	0.10		9.0		9.0	1.5	7.5
NISKU A	199.0	0.05		10.0		10.0	2.1	7.9
HAYTER 041-01W4								
UPPER MANNVILLE A	90.1	0.05		4.5		4.5	3.8	0.7
COLONY A	111.0	<0.01		0.1		0.1		0.1
COLONY B	282.0	0.05		14.1		14.1	9.7	4.4
COLONY C	43.9	0.15		6.6		6.6	5.5	1.1
SPARKY A TOTAL	3 742.0			262.0	92.5	355.0	305.6	49.4
PRIMARY AREA	662.0	0.07		46.3		46.3		
WATER FLOOD AREA	3 080.0	0.07	0.03	216.0	92.5	309.0		
SPARKY B	262.0	<0.03		6.1		6.1	6.1	
SPARKY C	162.0	0.05		8.1		8.1	1.7	6.4
SPARKY G	63.0	0.08		5.0		5.0	3.1	1.9
SPARKY H	36.2	<0.01		0.2		0.2	0.2	
SPARKY I	89.1	<0.02		1.2		1.2	1.2	
SPARKY K	34.6	0.05		1.7		1.7	1.4	0.3
SPARKY L	115.0	0.10		11.5		11.5	8.2	3.3
SPARKY M	99.1	0.05		5.0		5.0	2.7	2.3
SPARKY N	115.0	<0.01		0.2		0.2	0.2	
SPARKY O	62.5	<0.01		0.2		0.2	0.2	
SPARKY P	38.4	<0.02		0.5		0.5	0.5	
SPARKY R	29.4	0.01		0.3		0.3	0.3	
SPARKY S	74.6	0.10		7.5		7.5	0.9	6.6
SPARKY T	102.0	0.05		5.1		5.1	1.4	3.7
SPARKY D & E	1 216.0	0.10		122.0		122.0	83.2	38.8
CUMMINGS A	57.0	0.05		2.9		2.9	1.1	1.8
CUMMINGS B	295.0	0.10		29.5		29.5	14.9	14.6
DINA A TOTAL	12 290.0			788.0	948.0	1 736.0	1 081.0	655.0
PRIMARY AREA	4 937.0	0.10		494.0		494.0		
WATER FLOOD AREA	7 350.0	0.04	0.13	294.0	948.0	1 242.0		
DINA B	37 630.0	0.02		753.0		753.0	593.0	160.0
DINA C	1 402.0	0.02		28.0		28.0	15.8	12.2
DINA D	366.0	0.07		25.6		25.6	17.4	8.2

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	3.50	0.100	0.25	0.89	46	933	43	10 240	1 350.0	1978	80 02 - SUSP 89 05
32	1.60	0.160	0.50	0.90	41	904	22	4 429	486.0	1976	85 07 - SUSP 83 11
16	2.00	0.300	0.36	0.99	10	952	20	3 648	541.0	1982	83 02 - SUSP 82 12
64	13.10	0.160	0.23	0.95	50	915	27	2 946	630.7	1980	83 05 - SUSP 84 11
402					38	865	31	10 363	950.4	1964	89 11
16	2.50	0.170	0.73	0.90							
386	4.94	0.280	0.25	0.90							- GPP
64	2.14	0.160	0.44	0.88	21	887	30	10 940	963.2	1978	80 12
16	3.50	0.240	0.33	0.95	21	959	32	11 140	997.5	1978	79 06
32	1.00	0.220	0.20	0.88	37	865	28	12 218	946.0	1980	83 12
128	3.48	0.222	0.21	0.94	37	873	31	5 586	953.6	1984	89 09
16	0.70	0.200	0.25	0.94	37	878	58	6 673	970.4	1986	89 12
128	7.64	0.260	0.23	0.92	35	890	31	11 850	944.1	1983	88 03 - GPP
32	4.80	0.280	0.26	0.92	35	860	31		946.2	1987	89 10
32	3.80	0.280	0.15	0.94	37	873	31	10 674	949.4	1986	88 09
97	2.00	0.220	0.48	0.95	20	876	30	3 250	974.5	1985	86 10 - GPP
540	2.56	0.260	0.44	0.88	40	904	38	10 950	974.4	1967	88 12
390	2.68	0.270	0.40	0.90	21	898	38	10 912	963.1	1967	88 12 - GPP
160	3.68	0.260	0.35	0.88	60	887	32	10 920	952.0	1969	88 12
64	1.89	0.260	0.33	0.92	37	893	58	10 686	953.3	1983	84 09 - GPP
32	2.00	0.290	0.25	0.90	37	894	34	10 641	972.0	1987	87 12 - SUSP 88 03
16	3.00	0.290	0.26	0.95	18	859	33	10 868	949.5	1987	88 06
64	2.80	0.250	0.65	0.87	53	876	28		936.6	1988	89 05
64	2.75	0.280	0.40	0.95	18	860	33		968.6	1988	89 10
32	1.90	0.260	0.33	0.95	18	860	33		981.0	1988	89 05
273	4.40	0.090	0.26	0.88	43	868	46	11 126	1 328.7	1987	88 11
64	7.10	0.130	0.17	0.89	49	849	35	12 077	1 317.2	1987	88 06
160	9.70	0.140	0.20	0.87	52	862	35	12 184	1 367.8	1988	89 07
64	2.70	0.073	0.38	0.87	52	862	35		1 360.4	1987	88 06 - SUSP 88 02
64	7.23	0.130	0.19	0.88	49	883	35	12 805	1 314.3	1987	89 05
64	7.50	0.198	0.31	0.90	40	898	36	11 764	1 347.8	1987	87 01
16	7.20	0.110	0.20	0.89	49	883	35		1 331.9	1987	88 11
64	3.40	0.138	0.19	0.82	74	895	33	12 454	1 352.7	1985	89 12
32	2.20	0.220	0.40	0.97	12	930	27	5 191	809.3	1980	83 12
16	5.20	0.250	0.45	0.97	14	951	26	4 438	618.0	1980	80 10 - ABAND 87 07
64	2.81	0.260	0.38	0.97	11	972	28	4 832	682.8	1983	84 07
16	2.00	0.280	0.50	0.98	8	950	24	4 523	651.0	1982	88 12
1 256					13	910	29	5 690	795.2	1968	87 12
176	2.13	0.280	0.35	0.97							
1 080	1.37	0.290	0.26	0.97							
65	2.13	0.280	0.30	0.97	15	915	27	5 790	739.4	1971	89 12 - SUSP 87 05
64	1.54	0.260	0.35	0.97	12	921	37	5 760	776.0	1972	73 01
16	2.50	0.280	0.42	0.97	12	919	32	5 162	687.5	1979	89 12
16	1.60	0.270	0.46	0.97	19	920	23	5 206	717.6	1979	83 12 - SUSP 83 12
32	2.14	0.240	0.44	0.97	12	925	32	5 375	711.7	1980	88 12 - SUSP 86 07
16	2.00	0.250	0.55	0.96	18	934	26	5 023	672.3	1980	82 03
45	1.24	0.290	0.27	0.97	11	911	31	5 790	742.1	1981	89 11
16	3.50	0.240	0.24	0.97	11	939	28	5 058	734.3	1979	80 01
32	2.40	0.280	0.45	0.97	12	920	27	5 495	737.0	1972	88 12 - SUSP 73 01
16	2.30	0.250	0.30	0.97	12	920	26	5 570	736.7	1983	83 11 - SUSP 85 08
16	1.50	0.300	0.45	0.97	11	925	28	5 273	718.8	1983	88 12 - SUSP 86 08
16	1.50	0.230	0.45	0.97	11	920	26	5 876	771.1	1983	88 12 - SUSP 86 05
32	1.68	0.270	0.47	0.97	10	920	27	5 778	784.9	1986	86 11 - SUSP 87 11
32	1.80	0.290	0.37	0.97	13	893	27		724.9	1988	89 02
418	1.86	0.260	0.38	0.97	16	930	25	4 000	741.9	1972	88 12
16	2.50	0.210	0.30	0.97	10	911	33	4 713	758.7	1981	82 04
109	1.81	0.240	0.35	0.96	17	904	29		735.7	1981	89 12 - GPP
707					13	921	24	5 190	788.6	1969	87 08 - GPP
308	6.80	0.300	0.19	0.97							
399	8.01	0.300	0.21	0.97							
1 384	11.24	0.290	0.14	0.97	20	965	28	5 500	778.5	1969	86 10 - GPP
112	7.03	0.270	0.32	0.97	13	958	26	5 070	782.3	1979	87 10 - GPP
32	5.24	0.300	0.25	0.97	9	938	34	5 140	700.5	1979	87 12 - GPP

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE 10 ³ m ³	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION 10 ³ m ³	REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY frac	ENHANCED frac	PRIMARY 10 ³ m ³	ENHANCED 10 ³ m ³	TOTAL 10 ³ m ³		
HAYTER 041-01W4 (CONTINUED)								
DINA H	252.0	<0.01		2.4		2.4	2.4	
DINA I	4 160.0	0.10		416.0		416.0	205.5	210.5
DINA J	556.0	0.02		11.1		11.1	2.8	8.3
DINA L	158.0	<0.01		0.2		0.2	0.2	
DINA M	530.0	0.05		26.5		26.5	0.5	26.0
DINA N	218.0	0.10		21.8		21.8	0.1	21.7
DINA O	252.0	0.10		25.2		25.2	9.3	15.9
DINA Q	4 620.0	0.10		462.0		462.0	47.7	414.3
HEATHDALE 026-09W4								
GLAUCONITIC B	27.7	0.10		2.8		2.8	1.9	0.9
LOWER MANNVILLE B	151.0	0.05		7.6		7.6	0.1	7.5
DETRITAL A	248.0	<0.01		0.1		0.1	0.1	
HECTOR 016-17W4								
UPPER MANNVILLE B	158.0	<0.02		1.9		1.9	1.9	
HORSEFLY LAKE 008-16W4								
MANNVILLE TOTAL	6 381.0			531.0	680.0	1 211.0	1 086.4	124.6
PRIMARY AREA	721.0	0.07		50.5		50.5		
WATER FLOOD AREA	5 660.0	<0.08	0.13	480.0	680.0	1 160.0		
MANNVILLE B	154.0	0.10		15.4		15.4	10.9	4.5
ISLAY 050-04W4								
CUMMINGS A	113.0	<0.01		0.1		0.1		0.1
JENNER 020-09W4								
UPPER MANNVILLE A	260.0	0.13		33.8		33.8	30.7	3.1
UPPER MANNVILLE E	3 810.0	0.10	0.15	381.0	572.0	953.0	830.7	122.3
WATER FLOOD								
UPPER MANNVILLE F	4 260.0	0.05		213.0		213.0	161.1	51.9
UPPER MANNVILLE M	242.0	<0.01		0.1		0.1		0.1
UPPER MANNVILLE O	6 322.0	0.10		632.0		632.0	289.1	342.9
UPPER MANNVILLE V	267.0	<0.01		1.7		1.7	1.7	
UPPER MANNVILLE W	80.9	0.05		4.0		4.0	0.6	3.4
UPPER MANNVILLE X	87.4	0.10		8.7		8.7	1.7	7.0
UPPER MANNVILLE Y	16.1	0.10		1.6		1.6	0.9	0.7
UPPER MANNVILLE Z	297.0	0.05		14.9		14.9	0.8	14.1
UPPER MANNVILLE BB	23.0	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE CC	62.0	0.10		6.6		6.6	1.7	4.9
UPPER MANNVILLE DD	243.0	0.04		9.7		9.7	6.8	2.9
UPPER MANNVILLE EE	252.0	0.10		26.2		26.2	3.0	23.2
UPPER MANNVILLE HH	163.0	0.10		16.3		16.3	0.4	15.9
LOWER MANNVILLE A	259.0	<0.01		0.7		0.7	0.7	
LOWER MANNVILLE C	60.3	0.02		1.2		1.2	1.2	
PEKISKO A	95.3	<0.07		6.1		6.1	6.1	
PEKISKO B	466.0	<0.01		0.3		0.3	0.3	
PEKISKO C	106.0	0.05		5.3		5.3	1.1	4.2
PEKISKO D	501.0	<0.01		0.2		0.2	0.2	
PEKISKO E	50.7	<0.01		0.1		0.1	0.1	
PEKISKO F	52.7	0.10		5.3		5.3	1.5	3.8
JOHNSON 016-14W4								
GLAUCONITIC B TOTAL	1 146.0			171.0	179.6	351.0	179.3	171.7
PRIMARY AREA	248.0	0.15		37.2		37.2		
WATER FLOOD AREA	898.0	0.15	0.20	134.7	179.6	314.3		
GLAUCONITIC C	693.0	0.15		104.0		104.0	76.4	27.6
GLAUCONITIC E	203.0	0.20		40.6		40.6	13.1	27.5
JUMPBUSH 020-19W4								
UPPER MANNVILLE B	420.0	0.15		63.0		63.0	45.3	17.7
UPPER MANNVILLE H	300.0	0.15		45.0		45.0	38.5	6.5
UPPER MANNVILLE M	319.0	0.10		31.9		31.9	23.1	8.8
LOWER MANNVILLE A	66.0	<0.02		0.9		0.9	0.9	
KEHO 011-22W4								
BANFF A	46.8	<0.02		0.8		0.8	0.8	
KILLAM 043-10W4								
COLONY F	140.0	0.05		7.0		7.0	3.9	3.1

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
16	8.40	0.280	0.31	0.97	11	970	30	5 595	771.6	1979	89 12 - SUSP 87 09
191	8.06	0.320	0.13	0.97	11	960	27	5 063	771.2	1984	88 11 - GPP
32	7.70	0.310	0.25	0.97	11	970	31	5 118	769.8	1984	89 06 - GPP
16	6.00	0.280	0.37	0.93	15	989	29	4 977	858.3	1985	86 03 - ABAND 86 12
32	7.65	0.290	0.23	0.97	11	960	27	5 500	777.4	1987	87 11 - SUSP 88 10
16	6.00	0.320	0.27	0.97	9	935	28	5 187	781.0	1987	88 07 - GPP
16	8.79	0.280	0.34	0.97	9	935	28	5 337	724.6	1987	89 12 - GPP
168	11.00	0.300	0.14	0.97	9	935	28		782.5	1988	89 05 - GPP
16	1.00	0.280	0.35	0.95	18	949	34	9 501	1 028.0	1982	83 03
16	12.00	0.180	0.52	0.91	36	939	35	8 558	1 004.3	1987	88 04
16	10.00	0.250	0.32	0.91	36	940	35		1 012.3	1988	89 05 - ABAND 89 07
32	8.00	0.140	0.50	0.88	52	913	33	12 108	1 082.2	1982	85 12 - ABAND 89 07
1 200					16	887	33	10 200	961.6	1963	89 12
176	4.31	0.175	0.44	0.97							
1 024	5.50	0.185	0.44	0.97							
64	2.85	0.160	0.45	0.96	23	900	40	9 533	958.1	1980	86 04
16	3.50	0.300	0.30	0.96	17	978	26	6 704	701.3	1980	82 03 - ABAND 83 05
186	1.22	0.220	0.42	0.90	37	927	32	10 140	967.7	1965	86 12 - GPP
918	2.07	0.297	0.25	0.90	37	927	33	10 690	989.1	1964	76 01 - GPP
377	6.83	0.260	0.30	0.91	29	952	33	10 410	935.1	1965	89 12 - GPP
32	5.49	0.230	0.35	0.91	35	946	31	10 270	941.2	1971	89 12 - SUSP 77 02
531	7.11	0.260	0.30	0.92	37	952	33	10 510	954.3	1972	88 12 - GPP
16	9.90	0.240	0.26	0.95	37	960	35	10 042	937.7	1973	89 12 - SUSP 87 11
16	3.35	0.224	0.26	0.91	38	948	30	10 075	948.1	1983	83 10
16	3.73	0.230	0.33	0.95	38	941	24	10 200	912.7	1984	84 11
16	0.77	0.208	0.34	0.95	20	954	28	10 490	915.2	1984	85 01
32	5.64	0.270	0.33	0.91	29	959	32	10 170	964.7	1954	89 10
16	1.40	0.210	0.48	0.93	29	955	32	10 922	943.1	1988	88 08 - SUSP 88 07
16	3.60	0.210	0.45	0.93	29	955	32	10 330	954.0	1987	88 08
32	5.06	0.250	0.34	0.91	29	952	33	10 170	933.9	1965	88 12 - GPP
48	3.49	0.240	0.30	0.93	29	955	32		958.3	1988	89 06
16	8.30	0.230	0.42	0.92	34	945	32		954.7	1988	89 12
32	4.57	0.240	0.20	0.91	29	940	32	10 790	979.0	1965	67 05 - SUSP 69 11
16	3.00	0.230	0.40	0.91	42	944	32	10 569	987.5	1981	88 12 - ABAND 84 11
64	3.29	0.100	0.50	0.90	81	946	33	10 890	1 001.6	1964	73 02 - ABAND 72 02
28	23.77	0.112	0.30	0.90	81	946	41	10 620	1 036.6	1966	68 02 - ABAND 69 02
32	6.10	0.120	0.50	0.90	81	946	34	10 760	991.8	1966	68 10
65	4.27	0.300	0.35	0.93	29	972	32	10 780	991.2	1971	72 05 - ABAND 77 02
32	5.50	0.080	0.60	0.90	41	943	33	10 695	987.3	1980	82 12 - SUSP 82 08
16	9.00	0.080	0.48	0.88	50	950	27	10 767	974.5	1986	87 09 - SUSP 87 11
119					50	891	30	10 855	1 029.5	1982	88 11
16	8.60	0.250	0.18	0.88							- GPP
103	4.83	0.250	0.18	0.88							
118	3.57	0.234	0.20	0.88	50	888	31	8 600	1 021.4	1983	88 10
64	3.20	0.150	0.25	0.88	53	893	31	10 733	1 029.6	1983	89 12
142	2.50	0.190	0.25	0.83	73	845	40	11 360	1 337.3	1972	89 10
79	2.93	0.195	0.20	0.83	69	860	35	11 284	1 326.0	1972	89 10
64	4.00	0.200	0.25	0.83	73	846	40	11 154	1 310.0	1979	89 06
16	3.08	0.210	0.25	0.85	56	887	41	11 430	1 405.8	1977	89 12 - SUSP 87 06
16	7.20	0.055	0.23	0.96	10	964	51	21 124	1 720.3	1980	81 06 - ABAND 84 10
16	4.20	0.330	0.24	0.83	209	908	26	5 237	702.1	1979	80 11

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
KILLAM 043-10W4 (CONTINUED)								
LOWER MANNVILLE A	58.1	<0.02		0.7		0.7	0.7	
ELLERSLIE CC	608.0	0.05		30.4		30.4	3.9	26.5
KIRKWALL 027-05W4 COLONY A	110.0	<0.01		0.1		0.1	0.1	
LAFINE 025-05W4 BANFF A	25.5	0.05		1.3		1.3	0.2	1.1
LATHOM 020-17W4								
UPPER MANNVILLE A	4 200.0	0.15	0.35	630.0	1 470.0	2 100.0	1 921.5	178.5
WATER FLOOD								
UPPER MANNVILLE C	800.0	0.11	0.29	88.0	232.0	320.0	289.9	30.1
WATER FLOOD								
UPPER MANNVILLE D	344.0	0.15		51.6		51.6	38.7	12.9
UPPER MANNVILLE E	87.2	<0.01		0.4		0.4	0.4	
UPPER MANNVILLE H	188.0	0.10		18.8		18.8		18.8
UPPER MANNVILLE I	185.0	0.10		18.5		18.5	3.0	15.5
UPPER MANNVILLE J	60.1	0.10		6.0		6.0	0.2	5.8
LOWER MANNVILLE A	266.0	0.10		26.6		26.6	16.9	9.7
LOWER MANNVILLE B	72.1	<0.02		0.9		0.9	0.9	
LOWER MANNVILLE C	508.0	<0.01		0.9		0.9	0.9	
LEAMAN 057-09W5								
PEKISKO A	98.0	<0.06		5.6		5.6	5.6	
PEKISKO B	33.2	<0.01		0.1		0.1	0.1	
PEKISKO C	31.3	<0.01		0.1		0.1	0.1	
LECKIE 019-17W4								
UPPER MANNVILLE B	429.0	0.06		25.7		25.7	21.5	4.2
UPPER MANNVILLE C	144.0	0.10		14.4		14.4	3.3	11.1
LOWER MANNVILLE A	195.0	<0.01		1.2		1.2	1.2	
LITTLE BOW 015-19W4								
BOW ISL G,UP MANN BB & LOWER MANNVILLE T	494.0	0.10		49.4		49.4	41.1	8.3
UPPER MANNVILLE D	1 531.0			61.2	140.0	201.0	112.8	88.2
TOTAL								
PRIMARY AREA	260.0	0.04		10.4		10.4		
WATER FLOOD AREA	1 271.0	0.04	0.11	50.8	140.0	191.0		
UPPER MANNVILLE F	192.0	0.10		19.2		19.2	2.6	16.6
UPPER MANNVILLE G	1 800.0	0.10	0.25	180.0	270.0	450.0	168.5	281.5
WATER FLOOD								
UPPER MANNVILLE H	74.2	<0.01		0.4		0.4	0.4	
UPPER MANNVILLE I	1 700.0	0.10	0.10	170.0	170.0	340.0	177.8	162.2
WATER FLOOD								
UPPER MANNVILLE J	210.0	0.05		10.5		10.5	5.9	4.6
UPPER MANNVILLE L	1 211.0			60.6	100.0	161.0	79.2	81.8
TOTAL								
PRIMARY AREA	211.0	0.05		10.6		10.6		
WATER FLOOD AREA	1 000.0	0.05	0.10	50.0	100.0	150.0		
UPPER MANNVILLE M	147.0	0.10		14.7		14.7	8.4	6.3
UPPER MANNVILLE N	21.2	<0.05		0.9		0.9	0.9	
UPPER MANNVILLE O	146.0	0.05		7.3		7.3	2.5	4.8
UPPER MANNVILLE P	400.0	0.10		40.0		40.0	28.3	11.7
UPPER MANNVILLE Q	50.4	0.07		3.5		3.5	2.1	1.4
UPPER MANNVILLE R	45.3	<0.04		1.7		1.7	1.7	
UPPER MANNVILLE S	2 400.0	0.03		72.0		72.0	22.2	49.8
UPPER MANNVILLE T	1 200.0	0.10	0.10	120.0	120.0	240.0	125.5	114.5
WATER FLOOD								
UPPER MANNVILLE U	1 700.0	0.10	0.15	170.0	255.0	425.0	199.9	225.1
WATER FLOOD								
UPPER MANNVILLE V	50.1	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE W	1 800.0	0.10	0.15	180.0	270.0	450.0	181.6	268.4
WATER FLOOD								
UPPER MANNVILLE Y	69.1	0.10		6.9		6.9	4.1	2.8
UPPER MANNVILLE Z	51.1	0.10		5.1		5.1	3.9	1.2
UPPER MANNVILLE CC	44.9	<0.01		0.3		0.3	0.3	
UPPER MANNVILLE DD	50.5	0.01		0.5		0.5	0.5	
UPPER MANNVILLE II	1 223.0	0.10		122.0		122.0	29.6	92.4
UPPER MANNVILLE JU	25.9	0.10		2.6		2.6	0.4	2.2

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
16	1.93	0.260	0.23	0.94	24	954	36	6 510	873.0	1978	85 12 - ABAND 83 12
96	3.36	0.260	0.22	0.93	21	908	34	6 584	955.5	1984	89 12
16	7.00	0.220	0.54	0.97	9	956	35	7 492	888.2	1980	83 05 - ABAND 86 12
16	6.00	0.050	0.42	0.88	37	982	38	9 460	957.8	1987	88 01 - SUSP 87 12
426	6.31	0.230	0.20	0.85	66	876	35	10 480	1 171.0	1968	83 12 - GPP
159	3.92	0.210	0.30	0.87	62	887	45	10 640	1 141.5	1970	87 02
110	2.50	0.210	0.30	0.85	66	876	35	10 270	1 174.7	1968	88 12
65	1.22	0.210	0.38	0.85	51	849	40	10 260	1 183.5	1973	74 03 - SUSP 74 02
64	2.00	0.230	0.25	0.85	66	869	32	9 990	1 218.6	1980	80 12
64	3.90	0.120	0.29	0.87	56	869	36	10 279	1 176.7	1987	88 06
64	1.00	0.180	0.40	0.87	56	869	37	9 605	1 197.5	1983	88 08
128	1.64	0.200	0.28	0.88	41	876	31	10 980	1 185.1	1973	80 07 - GPP
32	3.05	0.160	0.48	0.88	41	876	35	11 000	1 209.4	1973	79 01 - SUSP 78 09
64	9.00	0.210	0.50	0.84	76	901	37	11 022	1 250.7	1983	84 06 - ABAND 88 03
64	3.10	0.100	0.42	0.85	50	916	71	12 460	1 688.5	1978	79 08 - SUSP 84 07
16	6.40	0.080	0.55	0.90	37	963	61	12 423	1 650.8	1981	83 10 - SUSP 83 08
16	6.60	0.070	0.53	0.90	37	963	61	12 134	1 615.2	1981	83 10 - SUSP 83 09
87	3.06	0.250	0.25	0.86	64	887	34	10 890	1 134.2	1967	88 12
64	1.77	0.190	0.25	0.89	58	900	40	10 561	1 169.3	1987	89 12
32	5.18	0.190	0.32	0.90	33	887	44	11 620	1 174.7	1967	68 10 - ABAND 69 10
96	4.27	0.200	0.33	0.90	54	934	33	12 220	1 147.0	1975	84 09
502					66	904	56	12 270	1 184.5	1968	89 11
144	1.55	0.190	0.30	0.87							
358	3.07	0.190	0.30	0.87							
64	3.96	0.140	0.40	0.90	44	952	37	12 170	1 127.2	1969	69 03 - GPP
240	4.31	0.230	0.16	0.90	44	946	38	12 130	1 132.3	1970	87 01
65	1.22	0.190	0.45	0.90	43	921	38	13 460	1 117.7	1970	74 12 - SUSP 84 05
115	10.66	0.230	0.33	0.90	44	927	33	12 250	1 094.3	1974	85 06 - GPP
130	1.68	0.160	0.33	0.90	44	927	34	11 220	1 106.7	1974	78 05 - SUSP 88 11
176					44	927	32	11 790	1 128.0	1976	88 12
64	2.19	0.220	0.24	0.90							
112	6.10	0.220	0.26	0.90							- GPP
64	2.10	0.180	0.30	0.87	57	887	36	12 180	1 221.0	1977	89 12
16	1.20	0.170	0.28	0.90	44	928	35	12 280	1 154.4	1978	79 04 - SUSP 84 06
32	3.00	0.220	0.23	0.90	55	915	32	11 200	1 095.5	1979	85 12 - SUSP 89 09
64	4.47	0.210	0.26	0.90	47	864	32	10 768	1 131.9	1979	85 12 - GPP
32	2.50	0.100	0.30	0.90	68	912	36	12 200	1 159.8	1979	85 10 - GPP
32	1.73	0.130	0.30	0.90	58	922	33	11 852	1 162.8	1979	80 07 - ABAND 89 02
303	5.23	0.220	0.24	0.90	47	937	33	11 889	1 075.4	1978	87 08
85	9.20	0.240	0.29	0.90	44	927	33	12 372	1 117.2	1975	85 06 - GPP
140	6.90	0.230	0.13	0.88	49	947	31	11 263	1 126.3	1982	86 05
16	3.60	0.190	0.48	0.88	56	928	34	11 242	1 074.5	1982	83 03 - ABAND 85 10
169	7.12	0.210	0.19	0.88	49	947	32	11 827	1 127.1	1983	86 01
16	3.00	0.200	0.20	0.90	47	946	32	11 638	1 134.8	1983	83 06
16	1.80	0.240	0.16	0.88	56	928	34	11 638	1 117.7	1972	83 09
16	2.00	0.240	0.35	0.90	47	946	32	11 915	1 169.3	1982	84 02 - ABAND 86 10
16	2.70	0.200	0.35	0.90	44	934	34	12 179	1 144.1	1983	88 12 - SUSP 86 04
300	3.13	0.200	0.26	0.88	57	898	34	12 733	1 196.4	1987	88 07
16	1.50	0.200	0.40	0.90	47	947	32	9 917	1 109.4	1967	88 08

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
LITTLE BOW 015-19W4 (CONTINUED)								
LOWER MANNVILLE A	134.0	0.05		6.7		6.7	5.1	1.6
LOWER MANNVILLE E	234.0	<0.01		0.3		0.3	0.3	
LOWER MANNVILLE H	86.0	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE I	78.3	0.10		7.8		7.8	4.9	2.9
LOWER MANNVILLE J	278.0	0.04		11.1		11.1	7.8	3.3
LOWER MANNVILLE L	48.0	<0.04		1.9		1.9	1.9	
LOWER MANNVILLE M	40.3	0.10		4.0		4.0	1.8	2.2
LOWER MANNVILLE N	27.4	<0.02		0.4		0.4	0.4	
LOWER MANNVILLE P	23.5	<0.04		0.9		0.9	0.9	
LOWER MANNVILLE U	57.5	<0.01		0.2		0.2	0.2	
LOWER MANNVILLE V	28.4	<0.01		0.2		0.2	0.2	
LIVINGSTONE A	91.7	<0.01		0.1		0.1	0.1	
LLOYDMINSTER 050-01W4								
COLONY D	188.0	0.05		9.4		9.4	7.1	2.3
COLONY E	55.0	<0.01		0.4		0.4	0.4	
COLONY F	300.0	0.05		15.0		15.0	8.7	6.3
COLONY G	113.0	0.05		5.6		5.6	5.3	0.3
COLONY H	48.0	<0.03		1.1		1.1	1.1	
COLONY I	32.0	<0.01		0.1		0.1	0.1	
COLONY J	106.0	0.05		5.3		5.3	4.1	1.2
COLONY K	40.9	0.05		2.1		2.1	0.7	1.4
COLONY N	61.6	<0.02		1.0		1.0	1.0	
COLONY O	45.7	0.05		2.3		2.3	0.7	1.6
COLONY T	307.0	<0.01		0.6		0.6	0.6	
COLONY V	93.0	0.04		3.7		3.7	2.0	1.7
MCLAREN A	1 226.0	0.05		61.3		61.3	12.0	49.3
MCLAREN D	231.0	0.03		6.9		6.9	1.6	5.3
WASECA A	141.0	0.05		7.1		7.1	0.5	6.6
SPARKY B	12 400.0	<0.06		698.0		698.0	488.7	209.3
SPARKY F	8 040.0	0.04		321.0		321.0	294.5	26.5
SPARKY G	19 500.0	0.05		975.0		975.0	722.2	252.8
SPARKY H	1 800.0	0.05		90.0		90.0	61.1	28.9
SPARKY J	3 180.0	0.04		127.0		127.0	93.2	33.8
SPARKY K	21 200.0	0.06		1 272.0		1 272.0	790.1	481.9
SPARKY L	793.0	<0.02		13.9		13.9	13.9	
SPARKY M	267.0	0.05		13.4		13.4	2.9	10.5
SPARKY N	28.1	<0.03		0.8		0.8	0.8	
SPARKY O	337.0	<0.01		0.9		0.9	0.9	
SPARKY P	651.0	0.02		13.0		13.0	9.0	4.0
SPARKY Q	14 780.0	0.02		296.0		296.0	180.7	115.3
SPARKY S	365.0	0.03		11.0		11.0	5.4	5.6
SPARKY T	186.0	0.03		5.6		5.6	5.6	
SPARKY U	183.0	<0.02		3.0		3.0	3.0	
SPARKY X	2 860.0	0.01		28.6		28.6	19.3	9.3
SPARKY EE	549.0	0.03		16.5		16.5	14.5	2.0
SPARKY FF	408.0	<0.01		0.4		0.4	0.4	
SPARKY KK	1 610.0	0.05		80.5		80.5	59.8	20.7
SPARKY NN	143.0	<0.01		0.4		0.4	0.4	
SPARKY OO	355.0	<0.01		0.2		0.2	0.2	
SPARKY QQ	46.3	<0.02		0.5		0.5	0.5	
SPARKY RR	124.0	<0.02		1.3		1.3	1.3	
SPARKY SS	201.0	<0.01		0.1		0.1	0.1	
SPARKY TT	144.0	<0.01		0.8		0.8	0.8	
SPARKY UU	105.0	<0.01		0.1		0.1	0.1	
SPARKY VV	1 465.0	0.02		29.3		29.3	12.6	16.7
SPARKY WW	263.0	<0.01		0.1		0.1		0.1
SPARKY XX	760.0	0.07		53.2		53.2	34.0	19.2
SPARKY YY	89.1	<0.01		0.2		0.2	0.2	
SPARKY ZZ	122.0	<0.01		0.5		0.5	0.5	
SPARKY C & GENERAL PETROLEUM A	24 300.0	0.06		1 460.0		1 460.0	1 276.3	183.7
SPARKY & GENERAL PETROLEUM C&D TOT	76 700.0			3 810.0	310.0	4 120.0	2 921.9	1 198.1
PRIMARY AREA	66 200.0	<0.04		2 760.0		2 760.0		
WATER FLOOD AREA	10 500.0	0.10	0.03	1 050.0	310.0	1 360.0		
SPARKY E & GENERAL PETROLEUM F	6 940.0	<0.07		445.0		445.0	338.2	106.8
SPARKY D & GENERAL PETROLEUM B	3 610.0	0.03		108.0		108.0	84.4	23.6

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
32	5.40	0.160	0.48	0.93	37	951	30	12 240	1 140.6	1968	84 06 - GPP
65	2.13	0.250	0.25	0.90	43	934	41	12 480	1 215.8	1973	77 03 - SUSP 77 09
32	2.70	0.170	0.35	0.90	44	940	38	12 410	1 193.9	1976	79 12 - SUSP 80 10
16	4.27	0.180	0.30	0.90	46	946	33	11 970	1 114.0	1977	77 12 - GPP
16	9.45	0.230	0.12	0.90	44	965	36	12 820	1 198.2	1977	85 12 - GPP
16	3.00	0.170	0.35	0.90	35	950	35	12 730	1 181.0	1979	88 12 - ABAND 83 11
32	1.00	0.200	0.30	0.90	85	970	31	12 070	1 205.8	1979	85 12 - GPP
32	0.80	0.170	0.30	0.90	46	952	33	12 470	1 165.4	1978	88 12 - SUSP 79 12
16	1.60	0.170	0.40	0.90	46	951	31	12 203	1 136.2	1979	88 12 - SUSP 84 11
16	3.80	0.185	0.45	0.93	37	952	30	11 542	1 219.5	1981	83 08 - SUSP 83 11
16	2.30	0.140	0.40	0.92	37	951	30	12 346	1 175.8	1982	84 02 - SUSP 84 10
64	4.00	0.070	0.45	0.93	21	985	42	12 898	1 212.3	1982	83 01 - ABAND 85 05
32	3.26	0.280	0.35	0.99	8	983	25	2 880	547.1	1977	79 06 - GPP
16	1.86	0.300	0.37	0.98	10	961	28	2 970	539.2	1977	88 12 - SUSP 78 07
38	2.77	0.320	0.10	0.99	11	975	28	3 060	548.2	1977	80 12 - GPP
16	3.70	0.320	0.40	0.99	9	962	24	3 000	542.3	1978	79 10 - GPP
8	2.10	0.320	0.10	0.99	10	962	28	3 010	540.6	1975	79 12 - ABAND 84 10
8	2.10	0.320	0.40	0.99	10	980	28	3 020	541.9	1977	84 12 - SUSP 81 08
32	2.00	0.280	0.40	0.99	10	981	28	3 345	542.7	1982	85 12 - SUSP 88 09
4	4.30	0.320	0.25	0.99	10	970	22	3 447	591.7	1979	84 04
8	4.90	0.270	0.40	0.97	12	988	25	3 050	545.8	1980	88 12 - SUSP 86 04
4	5.50	0.300	0.30	0.99	10	985	28	3 050	573.0	1983	84 08
16	7.30	0.320	0.17	0.99	12	977	25	3 234	495.6	1985	86 05 - ABAND 86 11
16	2.50	0.320	0.25	0.97	13	949	26	2 880	564.9	1984	84 03
128	4.57	0.310	0.31	0.98	12	965	24	3 953	559.0	1983	87 12
16	7.00	0.310	0.32	0.98	7	945	30	2 460	568.5	1985	85 05
16	3.70	0.300	0.20	0.99	9	983	27	4 050	531.7	1982	82 08 - GPP
747	6.18	0.320	0.15	0.99	10	959	19	3 718	583.2	1966	86 11 - GPP
712	3.96	0.320	0.10	0.99	10	959	22	4 010	588.3	1947	77 12 - GPP
1 631	5.44	0.300	0.26	0.99	10	959	22	4 070	599.8	1963	85 12
232	2.72	0.320	0.10	0.99	10	959	22	3 830	544.7	1961	85 12 - GPP
339	3.29	0.320	0.10	0.99	10	959	22	3 990	576.7	1956	76 12
2 397	3.45	0.320	0.19	0.99	10	959	22	3 920	579.0	1947	89 12 - GPP
93	2.99	0.320	0.10	0.99	10	959	22	3 920	574.9	1951	86 07 - ABAND 87 06
32	2.90	0.320	0.10	0.99	10	959	22	4 030	595.0	1945	85 06
16	0.61	0.320	0.10	0.99	10	959	22	4 060	598.6	1944	71 06 - ABAND 54 10
32	3.66	0.320	0.10	0.99	10	959	22	4 010	582.8	1940	71 06 - ABAND 56 06
64	3.78	0.320	0.15	0.99	15	980	22	4 050	590.1	1964	87 12 - GPP
1 160	4.47	0.320	0.10	0.99	10	959	22	4 020	577.8	1944	89 11 - GPP
32	4.00	0.320	0.10	0.99	10	959	22	4 090	600.8	1965	75 07 - GPP
32	2.01	0.320	0.10	0.99	10	959	22	4 020	577.9	1952	71 06 - ABAND 65 10
16	3.96	0.320	0.10	0.99	10	959	22	4 060	577.3	1948	71 06 - ABAND 55 01
228	5.09	0.300	0.17	0.99	6	959	22	4 840	580.0	1974	85 12 - GPP
80	3.04	0.300	0.24	0.99	10	986	22	3 480	569.5	1977	86 12 - GPP
32	5.30	0.300	0.19	0.99	12	979	21	3 380	576.0	1977	83 12 - SUSP 81 07
187	3.72	0.300	0.22	0.99	12	977	24	3 500	565.8	1982	86 11
16	5.00	0.270	0.33	0.99	9	986	27	3 940	568.8	1977	83 12 - SUSP 81 06
16	8.50	0.310	0.15	0.99	9	959	16	3 630	616.3	1978	79 02 - SUSP 85 04
16	1.50	0.300	0.35	0.99	9	985	27	4 070	594.3	1978	83 12 - SUSP 81 12
16	3.30	0.300	0.21	0.99	9	972	23	3 960	572.9	1978	84 12 - SUSP 84 05
16	5.50	0.320	0.28	0.99	9	985	27	4 000	592.8	1978	79 05 - ABAND 84 07
8	6.90	0.340	0.21	0.97	10	975	22	2 640	564.6	1978	83 12 - ABAND 82 10
16	2.90	0.300	0.24	0.99	9	979	27	4 240	627.1	1978	84 12 - ABAND 86 09
96	5.85	0.310	0.15	0.99	10	980	22	4 010	588.5	1979	89 06 - GPP
16	6.10	0.320	0.14	0.98	10	961	24	2 460	548.7	1978	82 12 - ABAND 85 10
108	3.20	0.280	0.19	0.97	10	982	24	2 460	563.6	1978	89 12 - GPP
16	3.00	0.280	0.33	0.99	9	982	25	3 888	528.5	1980	83 12 - ABAND 86 06
16	3.80	0.270	0.25	0.99	8	975	25	4 840	619.7	1980	81 07 - ABAND 85 10
2 162	3.95	0.320	0.10	0.99	10	959	22	4 020	588.0	1948	82 12 - GPP
7 426					10	959	22	4 020	599.5	1939	84 12 - GPP
6 681	3.47	0.320	0.10	0.99							
745	4.94	0.320	0.10	0.99							
513	4.74	0.320	0.10	0.99	10	959	22	3 970	563.6	1951	79 06 - GPP
320	3.96	0.320	0.10	0.99	10	959	22	3 970	573.0	1968	75 07 - GPP

TABLE 2-4

FIELD POOL	1	2 3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
LLOYDMINSTER 050-01W4 (CONTINUED)								
SPARKY I & GENERAL PETROLEUM K	10 300.0	<0.05		416.0		416.0	341.9	74.1
SPARKY AAA	520.0	0.04		20.8		20.8	10.2	10.6
SPARKY BBB	236.0	0.05		11.8		11.8	2.2	9.6
SPARKY EEE	126.0	<0.01		0.1		0.1		0.1
SPARKY FFF	93.9	<0.01		0.1		0.1	0.1	
SPARKY GGG	177.0	0.05		8.9		8.9	4.2	4.7
SPARKY HHH	71.0	<0.01		0.2		0.2	0.2	
SPARKY III	149.0	0.08		11.9		11.9	6.5	5.4
SPARKY JJJ	228.0	0.03		6.8		6.8	2.7	4.1
SPARKY KKK	137.0	<0.01		1.0		1.0	1.0	
SPARKY LLL	336.0	0.05		16.8		16.8	3.4	13.4
SPARKY MMM	60.9	<0.02		1.0		1.0	1.0	
SPARKY NNN	32.9	0.01		0.3		0.3	0.3	
SPARKY OOO	297.0	0.05		14.9		14.9	9.5	5.4
SPARKY PPP	49.4	<0.01		0.1		0.1	0.1	
SPARKY QQQ	71.4	0.05		3.6		3.6	0.9	2.7
SPARKY SSS	166.0	0.02		3.3		3.3	2.1	1.2
SPARKY TTT	150.0	<0.01		0.6		0.6	0.6	
SPARKY UUU	155.0	<0.01		0.9		0.9	0.9	
SPARKY WWW	73.2	<0.02		1.4		1.4	1.4	
SPARKY YYY	149.0	<0.01		0.1		0.1	0.1	
SPARKY ZZZ	740.0	0.05		87.0		87.0	18.6	68.4
SPARKY A2A	236.0	0.05		11.8		11.8	5.9	5.9
SPARKY B2B	349.0	0.05		17.5		17.5	4.2	13.3
SPARKY C2C	94.7	0.07		6.6		6.6	4.9	1.7
SPARKY D2D	218.0	<0.01		0.7		0.7	0.7	
SPARKY E2E	570.0	0.05		28.5		28.5	9.9	18.6
SPARKY F2F	97.2	0.15		14.6		14.6	11.6	3.0
SPARKY G2G	274.0	0.05		13.7		13.7	6.4	7.3
SPARKY I2I	138.0	<0.01		0.1		0.1	0.1	
SPARKY J2J	90.2	<0.01		0.1		0.1	0.1	
SPARKY L2L	248.0	0.05		12.4		12.4	1.7	10.7
GENERAL PETROLEUM E	186.0	<0.01		0.1		0.1	0.1	
GENERAL PETROLEUM I	330.0	0.02		26.6		26.6	16.8	9.8
GENERAL PETROLEUM J	921.0	0.05		46.1		46.1	33.1	13.0
GENERAL PETROLEUM L	47.5	<0.01		0.1		0.1	0.1	
GENERAL PETROLEUM M	663.0	0.05		83.2		83.2	36.1	47.1
GENERAL PETROLEUM N	346.0	0.05		67.3		67.3	21.7	45.6
GENERAL PETROLEUM O	56.0	<0.01		0.1		0.1		0.1
GENERAL PETROLEUM Q	597.0	<0.01		0.7		0.7	0.7	
GENERAL PETROLEUM R	223.0	0.05		11.2		11.2	3.5	7.7
GENERAL PETROLEUM S	83.2	0.10		8.3		8.3	2.9	5.4
GENERAL PETROLEUM T	106.0	<0.01		0.1		0.1	0.1	
GENERAL PETROLEUM U	57.0	0.05		2.9		2.9		2.9
GENERAL PETROLEUM V	175.0	<0.01		0.1		0.1	0.1	
GENERAL PETROLEUM W	136.0	0.05		6.8		6.8	0.9	5.9
GENERAL PETROLEUM X	715.0	0.05		35.8		35.8	2.0	33.8
GENERAL PETROLEUM Z	131.0	0.05		6.6		6.6		6.6
REX A	706.0	0.03		21.2		21.2	5.0	16.2
LLOYDMINSTER A	176.0	0.03		5.3		5.3	1.8	3.5
LLOYDMINSTER B	392.0	0.01		3.9		3.9	2.2	1.7
LLOYDMINSTER D	165.0	<0.01		0.4		0.4	0.4	
LLOYDMINSTER E	170.0	<0.01		0.1		0.1		0.1
LLOYDMINSTER F	175.0	<0.02		3.5		3.5	2.4	1.1
LLOYDMINSTER G	179.0	<0.01		0.1		0.1	0.1	
LLOYDMINSTER I	89.6	<0.01		0.5		0.5	0.5	
LLOYDMINSTER K	271.0	0.05		13.6		13.6	1.3	12.3
LLOYDMINSTER M	2 150.0	0.05		108.0		108.0	33.1	74.9
CUMMINGS A	359.0	0.03		10.8		10.8	5.3	5.5
CUMMINGS B	487.0	0.05		24.4		24.4	23.7	0.7
CUMMINGS C	66.1	<0.01		0.5		0.5	0.5	
CUMMINGS D	238.0	0.05		11.9		11.9	2.1	9.8
CUMMINGS E	58.7	<0.01		0.1		0.1		0.1
CUMMINGS F	169.0	<0.01		0.5		0.5	0.5	
CUMMINGS G	155.0	0.05		7.7		7.7	1.4	6.3
CUMMINGS H	163.0	<0.01		0.1		0.1		0.1
MAJEAU 056-04W5								
LOWER MANNVILLE A	39.6	<0.01		0.3		0.3	0.3	
LOWER MANNVILLE B	62.5	<0.03		1.4		1.4	1.4	

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
862	4.19	0.320	0.10	0.99	10	959	22	3 990	583.7	1944	79 07 - GPP
64	4.10	0.290	0.31	0.99	9	986	25	4 850	606.2	1980	84 12 - SUSP 89 09
32	2.93	0.310	0.18	0.99	10	958	28	3 949	559.0	1980	82 06 -
16	3.80	0.280	0.25	0.99	9	985	27	4 062	594.6	1981	82 08 - ABAND 83 05
16	2.50	0.300	0.21	0.99	9	988	27	4 103	598.3	1981	82 08 - SUSP 83 11
16	4.50	0.310	0.20	0.99	9	959	28	4 093	597.3	1982	82 11 -
16	2.30	0.300	0.35	0.99	9	971	23	4 070	595.4	1982	83 01 - SUSP 84 12
32	2.40	0.280	0.30	0.99	10	962	22	4 027	553.7	1982	89 12 -
16	7.00	0.300	0.30	0.97	10	975	22	4 060	598.5	1982	85 12 -
8	7.77	0.320	0.29	0.97	10	975	26	4 125	624.9	1979	84 01 - SUSP 84 12
48	3.19	0.300	0.26	0.99	10	975	54	3 960	572.5	1982	84 03 - SUSP 88 09
4	7.00	0.330	0.32	0.97	10	975	22	4 820	618.0	1979	83 09 - SUSP 85 11
16	1.00	0.300	0.30	0.98	8	981	22	4 200	622.3	1983	80 03 - ABAND 84 05
32	3.50	0.330	0.18	0.98	8	941	19	3 771	556.4	1983	85 12 -
16	1.50	0.300	0.30	0.98	8	981	22	4 190	628.3	1983	83 11 - SUSP 85 01
16	2.30	0.280	0.30	0.99	10	990	25	4 060	599.8	1983	84 03 -
16	5.00	0.300	0.30	0.99	9	980	27	4 050	592.0	1984	84 08 -
16	4.50	0.300	0.30	0.99	10	992	22	3 989	264.8	1984	84 08 - ABAND 84 03
16	4.50	0.310	0.30	0.99	10	990	22	2 500	565.9	1984	88 12 - SUSP 86 06
16	2.00	0.330	0.30	0.99	10	985	25	3 980	490.8	1979	89 12 - SUSP 86 10
16	4.00	0.300	0.20	0.97	10	970	27	4 090	592.0	1984	89 12 - SUSP 87 02
160	5.67	0.260	0.24	0.97	12	980	26	4 040	596.1	1984	86 06 -
16	6.20	0.300	0.20	0.99	9	957	41	3 940	557.5	1979	80 03 -
32	4.82	0.300	0.23	0.98	12	980	24	4 060	502.8	1985	88 03 -
16	3.39	0.200	0.10	0.97	9	999	24	3 740	511.1	1965	80 05 - SUSP 87 12
16	5.00	0.320	0.14	0.99	10	985	30	3 850	548.0	1985	89 12 - SUSP 89 09
32	7.28	0.320	0.22	0.98	10	979	19	3 274	543.4	1985	87 03 -
16	2.13	0.320	0.10	0.99	7	959	19	3 750	512.0	1965	86 03 -
16	7.00	0.330	0.25	0.99	10	986	22	4 724	549.0	1980	80 07 -
16	3.35	0.320	0.19	0.99	10	930	30	3 715	601.5	1974	88 12 - SUSP 84 06
16	2.70	0.300	0.29	0.98	8	981	22	3 747	605.2	1980	88 10 - ABAND 88 08
16	7.10	0.300	0.25	0.97	10	975	22	3 920	572.3	1985	88 10 - SUSP 88 11
16	4.27	0.320	0.15	0.99	12	959	21	3 829	602.0	1974	88 12 - ABAND 75 09
198	2.76	0.300	0.18	0.99	9	974	25	3 282	599.0	1977	85 12 - GPP
96	3.94	0.300	0.18	0.99	10	984	25	3 620	588.4	1975	86 10 - GPP
8	2.74	0.270	0.20	0.99	9	979	27	3 910	588.0	1977	78 05 - SUSP 78 09
294	2.38	0.300	0.20	0.99	8	984	27	3 730	568.7	1977	89 12 - GPP
210	2.84	0.300	0.24	0.99	9	983	27	3 068	580.8	1977	88 12 -
8	4.00	0.270	0.35	0.99	9	972	27	3 068	615.0	1979	79 10 - ABAND 80 05
16	12.70	0.330	0.10	0.99	10	970	27	4 094	607.7	1981	82 04 - ABAND 87 04
16	5.00	0.320	0.12	0.99	9	974	25	3 719	567.5	1981	82 08 -
16	2.50	0.280	0.25	0.99	10	988	25	3 836	641.8	1982	89 12 - GPP
16	3.00	0.280	0.20	0.99	9	959	22	3 557	615.2	1983	88 12 - ABAND 84 06
8	3.00	0.300	0.20	0.99	9	983	27	3 840	575.0	1984	84 08 -
16	4.50	0.310	0.20	0.98	6	970	30	3 780	555.3	1984	85 07 - ABAND 85 06
16	3.50	0.310	0.21	0.99	24	930	26	4 705	571.3	1985	85 11 -
64	4.35	0.320	0.19	0.99	14	980	26	3 844	562.9	1985	86 10 -
16	3.20	0.310	0.16	0.98	8	981	22		622.8	1988	89 03 -
16	20.00	0.300	0.25	0.98	10	965	25	4 017	600.8	1952	87 09 -
16	4.88	0.285	0.20	0.99	8	979	27	3 790	610.2	1973	82 12 - GPP
32	5.70	0.310	0.30	0.99	10	959	22	3 450	605.0	1974	85 04 - GPP
16	4.20	0.310	0.20	0.99	9	973	27	4 200	605.7	1977	83 12 - SUSP 80 07
16	4.20	0.320	0.20	0.99	11	992	25	4 220	607.8	1977	83 12 - ABAND 85 10
16	4.60	0.300	0.20	0.99	8	974	27	4 200	605.4	1975	85 07 - SUSP 88 09
16	7.62	0.270	0.45	0.99	10	991	27	4 930	654.0	1978	79 04 - SUSP 82 08
16	2.50	0.290	0.22	0.99	22	975	25	4 239	610.0	1983	89 12 - SUSP 87 07
16	6.70	0.290	0.12	0.99	22	978	25	3 810	602.7	1983	84 08 - SUSP 89 09
108	7.72	0.310	0.16	0.99	10	983	27	4 295	684.3	1983	85 06 -
32	5.07	0.290	0.23	0.99	10	972	30	4 356	630.9	1977	82 10 - GPP
32	6.40	0.305	0.20	0.99	9	973	27	4 340	632.8	1977	85 12 - GPP
16	2.10	0.280	0.29	0.99	9	980	29	5 250	727.5	1978	79 06 - SUSP 85 11
16	6.30	0.280	0.15	0.99	9	988	29	4 462	655.2	1982	83 04 - SUSP 89 09
16	1.90	0.270	0.27	0.98	9	980	29	4 050	697.8	1983	83 11 - ABAND 84 05
16	4.50	0.300	0.21	0.99	90	973	29	3 844	647.8	1979	88 12 - SUSP 85 11
16	4.30	0.320	0.29	0.99	9	972	27	4 340	632.9	1985	86 07 -
16	4.20	0.310	0.21	0.99	9	972	29	4 700	635.2	1987	87 11 - ABAND 87 10
32	1.40	0.170	0.35	0.80	145	920	32	9 735	1 223.0	1981	84 12 - SUSP 82 10
16	5.00	0.140	0.38	0.90	70	921	58	9 650	1 245.0	1980	88 12 - SUSP 86 01

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
MAJEAU 056-04W5 (CONTINUED)								
LOWER MANNVILLE D	64.7	0.10		6.5		6.5	4.2	2.3
LOWER MANNVILLE F	147.0	0.10		14.7		14.7	1.3	13.4
BANFF B	529.0	0.10		52.9		52.9	1.7	51.2
BANFF C	36.6	<0.02		0.6		0.6	0.6	
WABAMUN B	106.0	0.05		5.3		5.3	0.4	4.9
MAJORVILLE 018-19W4								
UPPER MANNVILLE B	1 627.0	0.15		244.0		244.0	180.3	63.7
UPPER MANNVILLE C	297.0	0.10		29.7		29.7	13.0	16.7
UPPER MANNVILLE G	136.0	0.15		20.4		20.4	1.0	19.4
UPPER MANNVILLE H	101.0	<0.03		3.0		3.0	3.0	
UPPER MANNVILLE I	208.0	0.10		20.8		20.8	0.9	19.9
LOWER MANNVILLE A	160.0	0.05		8.0		8.0	5.9	2.1
LOWER MANNVILLE C	82.0	0.05		4.1		4.1	0.4	3.7
LOWER MANNVILLE D	193.0	0.10		19.3		19.3	0.1	19.2
MANNVILLE 051-09W4								
UPPER MANNVILLE A	826.0	0.03		24.8		24.8	11.3	13.5
UPPER MANNVILLE B	405.0	<0.01		0.2		0.2	0.2	
UPPER MANNVILLE M	420.0	<0.01		1.3		1.3	1.3	
LOWER MANNVILLE D	151.0	<0.01		0.2		0.2	0.2	
MARWAYNE 053-01W4								
SPARKY B	149.0	0.03		4.5		4.5	0.4	4.1
LLOYDMINSTER A	302.0	0.03		9.1		9.1	2.2	6.9
MATZIWIN 023-14W4								
PEKISKO A	1 050.0	0.11		116.0		116.0	105.4	10.6
PEKISKO B	168.0	<0.02		2.3		2.3	2.3	
MEDICINE HAT 012-05W4								
GLAUCONITIC C	30 920.0	0.03		928.0		928.0	350.4	577.6
LOWER MANNVILLE A	130.0	0.10		13.0		13.0	11.1	1.9
LOWER MANNVILLE C	127.0	0.10		12.7		12.7	10.5	2.2
LOWER MANNVILLE I	252.0	0.05		12.6		12.6	5.8	6.8
LOWER MANNVILLE K	70.3	0.10		7.0		7.0	2.0	5.0
MEDICINE RIVER 039-03W5								
ELKTON-SHUNDA B	1 262.0	0.15		189.0		189.0	109.7	79.3
MOONEY 072-07W5								
BLUESKY A	1 074.0	0.10		107.0		107.0	7.1	99.9
MORGAN 051-04W4								
SPARKY B	109.0	0.05		5.5		5.5	0.2	5.3
WAINWRIGHT A	112.0	0.04		4.5		4.5	2.7	1.8
LLOYDMINSTER B	1 740.0	0.01		17.4		17.4	3.9	13.5
LLOYDMINSTER D	465.0	0.02		9.3		9.3	1.6	7.7
LLOYDMINSTER A & SPARKY A	77 690.0	<0.02		1 036.0		1 036.0	736.9	299.1
DINA A	159.0	<0.01		0.2		0.2	0.2	
MORRIS 053-18W4								
UPPER MANNVILLE H	166.0	0.05		8.3		8.3	3.8	4.5
GLAUCONITIC A	82.1	<0.01		0.6		0.6	0.6	
OYEN 029-03W4								
MANNVILLE A	82.2	<0.01		0.8		0.8	0.8	
PADDLE RIVER 057-08W5								
RUNDLE	6 040.0	<0.04		203.6		203.6	203.6	
PARADISE 047-02W4								
CUMMINGS A	100.0	<0.01		0.1		0.1	0.1	
PENDANT D'OREILLE 003-08W4								
MANNVILLE D	427.0	<0.01		1.2		1.2	1.2	
MANNVILLE L	96.9	<0.01		0.1		0.1		0.1

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
32	2.50	0.150	0.35	0.83	66	934	49	9 434	1 249.6	1979	85 12 - SUSP 89 07
32	4.07	0.172	0.27	0.90	38	921	46	9 548	1 248.2	1980	87 03
65	8.84	0.160	0.35	0.89	43	898	44	10 450	1 319.5	1974	77 03
64	1.30	0.100	0.45	0.80	87	903	32	10 560	1 210.3	1982	83 02 - ABAND 86 02
32	8.50	0.090	0.51	0.88	51	889	47	10 472	1 388.3	1983	87 03
208	4.92	0.220	0.15	0.85	58	887	60	11 810	1 330.4	1975	87 05
65	3.05	0.240	0.26	0.85	58	887	60	12 740	1 424.3	1975	76 09 - GPP
64	2.00	0.180	0.30	0.84	72	870	40	12 125	1 382.0	1986	87 05
64	2.00	0.140	0.32	0.83	70	872	42	12 169	1 380.5	1981	82 06 - SUSP 87 03
64	4.30	0.130	0.30	0.83	73	846	32	11 781	1 346.3	1987	88 06
64	3.66	0.160	0.50	0.85	66	876	40	12 810	1 344.5	1976	85 12 - GPP
64	1.80	0.135	0.38	0.85	60	872	40	12 379	1 387.1	1987	88 03
64	3.30	0.200	0.45	0.83	83	903	45	11 880	1 386.7	1986	86 12
80	4.88	0.300	0.28	0.98	10	972	33	4 900	626.8	1971	82 12 - GPP
65	2.74	0.310	0.25	0.98	10	979	33	4 830	619.7	1971	72 12 - ABAND 72 05
65	3.05	0.310	0.30	0.98	10	979	21	3 480	586.7	1974	78 01 - SUSP 77 11
16	3.90	0.320	0.23	0.98	6	994	30	4 377	719.0	1981	82 04 - ABAND 85 08
16	3.50	0.320	0.16	0.99	8	985	25	3 888	522.8	1978	79 12
16	9.20	0.300	0.31	0.99	10	981	25	3 000	559.0	1982	84 02
296	5.40	0.104	0.30	0.90	53	915	35	9 960	1 021.1	1962	87 12 - GPP
32	6.25	0.132	0.30	0.90	53	892	35	9 860	1 008.6	1962	67 02 - ABAND 71 11
2 576	8.66	0.220	0.30	0.90	45	960	26	10 051	828.0	1984	87 10
40	2.55	0.230	0.43	0.97	9	960	31	10 000	887.8	1978	86 12 - GPP
64	2.10	0.210	0.50	0.90	44	958	27	10 060	891.0	1979	85 12 - GPP
112	2.75	0.150	0.40	0.91	37	945	30	10 202	927.3	1976	84 11 - GPP
16	2.44	0.230	0.14	0.91	35	979	32	10 516	1 030.8	1977	84 09
623	6.00	0.060	0.25	0.75	59	940	70	17 590	2 296.4	1973	88 12
144	4.62	0.247	0.24	0.86	2	953	20	5 745	918.6	1987	88 09
16	3.30	0.280	0.25	0.98	8	981	22	3 450	527.3	1983	88 10
16	4.00	0.200	0.10	0.97	9	999	24	2 650	556.0	1965	86 12
96	7.71	0.300	0.20	0.98	10	980	25	1 768	558.9	1983	89 12
16	10.80	0.320	0.15	0.99	12	994	25	3 325	564.0	1984	85 04 - SUSP 88 10
3 540	8.45	0.316	0.17	0.99	7	993	21	3 336	559.1	1976	89 08 - GPP
16	4.50	0.300	0.25	0.98	10	980	25	2 824	595.1	1983	84 03 - ABAND 84 07
32	2.80	0.300	0.30	0.88	30	918	35	5 698	855.2	1979	86 12
16	3.10	0.280	0.35	0.91	40	930	29	5 730	861.5	1980	81 09 - ABAND 82 03
16	4.10	0.240	0.42	0.90	39	944	36		904.8	1988	89 02 - ABAND 89 09
1 616	6.92	0.075	0.20	0.90	39	959	63	12 310	1 568.5	1956	71 12 - SUSP 71 11
16	2.47	0.320	0.20	0.99	9	999	27	5 320	637.7	1977	79 08 - SUSP 83 06
65	6.40	0.210	0.40	0.82	80	910	38	8 370	863.8	1968	75 10 - ABAND 74 10
32	3.60	0.180	0.43	0.82	28	923	33	7 871	857.5	1977	88 12 - ABAND 86 05

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
PLAIN 053-12W4								
COLONY E	243.0	<0.03		5.0		5.0	4.0	1.0
PRINCESS 020-11W4								
BASAL MANNVILLE E	953.0	<0.01		4.4		4.4	4.4	
BASAL MANNVILLE I	235.0	0.10		23.5		23.5	7.2	16.3
BASAL MANNVILLE O	690.0	<0.01		1.2		1.2	1.2	
BASAL MANNVILLE P	1 260.0	0.05		63.0		63.0	47.9	15.1
BASAL MANNVILLE Q	775.0	<0.01		2.8		2.8	2.8	
BASAL MANNVILLE R	248.0	<0.01		1.3		1.3	1.3	
BASAL MANNVILLE U	137.0	<0.01		0.2		0.2	0.2	
BASAL MANNVILLE V	182.0	0.05		9.1		9.1	5.9	3.2
BASAL MANNVILLE W	80.2	0.10		8.0		8.0	4.7	3.3
BASAL MANNVILLE X	122.0	<0.01		0.3		0.3	0.3	
PEKISKO A	1 710.0	0.15		257.0		257.0	224.1	32.9
PEKISKO B	360.0	0.07		25.2	ERSO	25.2	19.7	5.5
PEKISKO C	55.1	<0.01		0.3		0.3	0.3	
PEKISKO D	94.0	0.15		14.1	ERSO	14.1	9.3	4.8
PEKISKO E	80.0	0.20		16.0	ERSO	16.0	13.3	2.7
PEKISKO F	65.5	0.10		6.6		6.6	0.8	5.8
JEFFERSON A	531.0	0.10		53.1		53.1	53.1	
PROVOST 036-07W4								
MANNVILLE V	185.0	<0.01		0.2		0.2	0.2	
UPPER MANNVILLE A	10 100.0	0.03		303.0		303.0	188.9	114.1
UPPER MANNVILLE B	34 200.0	0.03		1 020.0		1 020.0	541.4	478.6
UPPER MANNVILLE C	1 000.0	0.07		70.0		70.0	47.5	22.5
UPPER MANNVILLE E	133.0	0.07		9.3		9.3	8.0	1.3
UPPER MANNVILLE M	250.0	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE Q	44.2	<0.03		1.3		1.3	1.3	
UPPER MANNVILLE U	39.1	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE V	75.0	<0.01		0.2		0.2	0.2	
UPPER MANNVILLE X	33.5	<0.01		0.1		0.1		0.1
UPPER MANNVILLE BB	7 880.0	0.10		788.0		788.0	391.4	396.6
UPPER MANNVILLE CC	70.2	<0.01		0.1		0.1		0.1
UPPER MANNVILLE DD	113.0	0.05		5.7		5.7	2.6	3.1
UPPER MANNVILLE JJ	183.0	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE KK	112.0	<0.01		0.1		0.1		0.1
UPPER MANNVILLE LL	44.7	<0.01		0.4		0.4	0.4	
UPPER MANNVILLE VV	33.6	<0.01		0.3		0.3	0.3	
UPPER MANNVILLE WW	30.4	0.05		1.5		1.5	1.1	0.4
UPPER MANNVILLE XX	53.9	<0.06		3.0		3.0	3.0	
UPPER MANNVILLE YY	164.0	0.10		16.4		16.4	12.5	3.9
UPPER MANNVILLE FFF	471.0	0.03		14.1		14.1	2.6	11.5
UPPER MANNVILLE III	213.0	0.05		10.7		10.7	3.4	7.3
UPPER MANNVILLE KKK	226.0	0.02		4.5		4.5	2.4	2.1
UPPER MANNVILLE LLL	181.0	0.05		9.1		9.1	1.7	7.4
UPPER MANNVILLE MMM	171.0	0.10		17.1		17.1	4.5	12.6
UPPER MANNVILLE NNN	47.8	<0.01		0.2		0.2	0.2	
UPPER MANNVILLE PPP	1 330.0	0.07		93.1		93.1	74.8	18.3
UPPER MANNVILLE QQQ	292.0	0.05		14.6		14.6	1.9	12.7
UPPER MANNVILLE RRR	690.0	0.05		34.5		34.5	7.6	26.9
UPPER MANNVILLE SSS	371.0	0.10		37.1		37.1	6.4	30.7
UPPER MANNVILLE TTT	40.0	0.10		4.0		4.0	2.7	1.3
UPPER MANNVILLE UUU	129.0	0.10		12.9		12.9	1.8	11.1
UPPER MANNVILLE YYY	48.8	<0.01		0.1		0.1		0.1
UPPER MANNVILLE S2S	116.0	<0.02		1.6		1.6	1.6	
UPPER MANNVILLE T2T	125.0	0.05		6.3		6.3	5.1	1.2
UPPER MANNVILLE V2V	39.3	<0.04		1.4		1.4	1.4	
UPPER MANNVILLE W2W	61.6	0.05		3.1		3.1	3.1	
UPPER MANNVILLE X2X	43.7	<0.02		0.8		0.8	0.8	
UPPER MANNVILLE A3A	135.0	<0.01		0.2		0.2	0.2	
UPPER MANNVILLE B3B	245.0	0.02		4.9		4.9	2.0	2.9
UPPER MANNVILLE C3C	133.0	<0.01		0.1		0.1		0.1
UPPER MANNVILLE W3W	381.0	0.05		19.1		19.1	2.1	17.0
UPPER MANNVILLE X3X	162.0	0.05		8.2		8.2	1.5	6.7
UPPER MANNVILLE Y3Y	158.0	0.05		7.9		7.9	0.1	7.8
UPPER MANNVILLE A4A	13.0	0.10		1.3		1.3	0.6	0.7
UPPER MANNVILLE D4D	285.0	0.05		14.3		14.3	0.4	13.9
UPPER MANNVILLE E4E	66.4	<0.01		0.1		0.1		0.1
UPPER MANNVILLE L4L	137.0	0.10		13.7		13.7	1.5	12.2
UPPER MANNVILLE U2U & LLOYDMINSTER T	1 020.0	0.10		102.0		102.0	12.3	89.7

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
64	2.20	0.280	0.34	0.95	11	927	29	4 910	617.2	1974	89 12 - GPP
262	3.05	0.200	0.33	0.89	53	915	33	9 960	979.9	1968	68 09 - ABAND 79 09
64	3.26	0.220	0.43	0.90	40	892	32	9 259	993.2	1965	82 11 - GPP
65	8.53	0.220	0.39	0.93	32	940	34	10 380	1 004.6	1972	75 12 - SUSP 75 05
195	5.30	0.219	0.38	0.90	46	910	37	9 910	968.7	1972	89 12 - GPP
129	5.56	0.207	0.42	0.90	48	892	33	10 340	1 021.7	1972	83 12 - ABAND 83 12
64	4.03	0.184	0.42	0.90	47	927	33	9 090	964.4	1973	75 12 - ABAND 81 11
32	4.40	0.180	0.40	0.90	42	922	32	10 187	969.7	1982	83 09 - ABAND 88 06
16	11.20	0.190	0.40	0.89	45	928	33	10 393	972.0	1983	84 02 - GPP
32	1.75	0.230	0.30	0.89	47	923	33	10 383	972.6	1983	85 12 - SUSP 89 03
32	4.80	0.170	0.48	0.90	42	918	31	10 310	994.0	1986	86 06 - SUSP 86 05
543	6.00	0.070	0.15	0.88	50	881	31	10 960	1 016.5	1946	81 12 - GPP
101	5.03	0.108	0.25	0.88	49	892	34	10 520	1 022.2	1978	87 03 - GPP
16	8.70	0.110	0.60	0.90	44	945	31	10 440	1 025.0	1982	88 12 - ABAND 83 06
24	5.62	0.120	0.34	0.88	49	888	34	10 730	1 037.3	1978	88 12 - GPP
32	2.81	0.140	0.28	0.88	49	881	34	10 494	1 021.2	1978	88 12 - GPP
32	5.00	0.123	0.63	0.90	43	910	32	10 707	1 017.5	1986	86 10 - GPP
							38	11 070	1 017.1	1944	67 01 - ABAND 69 09
16	4.78	0.300	0.15	0.95	20	934	30	5 750	787.9	1977	83 12 - SUSP 80 05
1 048	4.14	0.300	0.20	0.97	12	965	27	5 900	779.5	1969	81 12 - GPP
1 233	12.71	0.300	0.25	0.97	11	979	24	5 450	744.3	1973	78 11 - GPP
112	4.40	0.300	0.30	0.97	16	921	26	5 790	779.7	1973	89 12 - GPP
32	3.06	0.253	0.42	0.92	23	915	32	6 140	817.8	1977	85 12 - GPP
16	6.55	0.300	0.18	0.97	14	972	27	6 170	822.7	1978	78 12 - SUSP 78 10
16	2.47	0.210	0.45	0.97	9	952	34	8 400	1 040.9	1977	78 10 - SUSP 83 12
16	2.10	0.240	0.50	0.97	12	969	30	5 968	915.5	1977	80 11 - SUSP 80 03
16	2.30	0.350	0.40	0.97	13	960	30	6 140	801.3	1979	80 12 - SUSP 82 05
16	1.60	0.270	0.50	0.97	12	980	27	7 179	788.2	1980	81 04 - ABAND 81 09
448	8.63	0.280	0.25	0.97	10	980	26	5 385	753.1	1977	87 12 - GPP
16	2.60	0.290	0.40	0.97	12	990	27	6 131	782.7	1980	81 07 - ABAND 86 01
16	3.70	0.290	0.32	0.97	12	990	27	6 141	788.4	1980	81 07 - GPP
16	6.00	0.280	0.30	0.97	12	980	23	5 367	740.5	1981	81 10 - SUSP 81 08
16	3.20	0.300	0.25	0.97	14	980	29	5 900	820.4	1981	83 12 - ABAND 83 11
16	2.00	0.240	0.40	0.97	17	960	26	6 180	933.8	1981	81 10 - SUSP 82 01
16	1.70	0.250	0.49	0.97	10	988	29	5 681	772.7	1982	82 09 - SUSP 84 10
16	1.00	0.280	0.30	0.97	11	940	30	5 369	708.4	1979	82 06 - GPP
32	1.00	0.270	0.35	0.96	16	934	30	5 068	768.5	1981	83 12 - ABAND 88 11
80	1.71	0.230	0.45	0.95	17	945	18	5 635	777.0	1978	88 07 - GPP
32	9.85	0.220	0.30	0.97	9	957	34	2 707	913.1	1983	89 08 - GPP
64	2.87	0.230	0.48	0.97	11	922	28	5 800	878.9	1983	85 01 - GPP
64	2.50	0.270	0.45	0.95	11	889	31	6 011	789.8	1984	88 12 - GPP
32	4.50	0.240	0.46	0.97	11	904	32	6 623	931.8	1984	85 01 - GPP
32	3.20	0.290	0.40	0.96	15	911	27	6 880	873.4	1984	85 03 - GPP
16	2.00	0.280	0.45	0.97	11	950	32	6 205	759.5	1981	87 12 - SUSP 83 09
76	7.30	0.290	0.15	0.97	25	985	30	5 258	742.6	1984	87 12 - GPP
32	8.00	0.235	0.50	0.97	11	910	32	5 707	833.6	1984	85 04 - GPP
64	6.51	0.280	0.39	0.97	12	994	27	5 360	780.3	1983	86 07 - GPP
12	12.39	0.310	0.17	0.97	10	980	30	5 237	594.4	1984	88 11 - GPP
32	2.00	0.190	0.63	0.89	45	898	34	5 844	799.5	1984	89 12 - GPP
32	5.20	0.190	0.54	0.89	45	898	35	5 978	802.3	1984	85 08 - GPP
16	3.00	0.230	0.54	0.96	15	910	30	5 385	778.3	1984	85 10 - ABAND 85 10
16	4.60	0.270	0.40	0.97	15	979	26	5 500	739.3	1981	88 12 - SUSP 86 04
16	3.60	0.290	0.23	0.97	15	990	26	5 476	766.8	1980	86 12 - GPP
16	1.50	0.260	0.35	0.97	15	980	29	5 780	817.0	1981	88 12 - SUSP 86 04
16	2.10	0.270	0.30	0.97	12	965	28	5 642	844.8	1977	89 12 - SUSP 87 05
16	1.80	0.230	0.32	0.97	13	959	28	5 750	885.7	1977	77 06 - ABAND 87 03
64	1.80	0.200	0.35	0.90	40	860	32	5 788	877.6	1984	85 10 - ABAND 88 06
32	5.50	0.290	0.49	0.94	24	908	24	4 600	754.8	1985	86 04 - GPP
64	2.00	0.250	0.55	0.92	31	820	26	5 656	798.0	1985	86 06 - ABAND 86 11
32	6.40	0.280	0.30	0.95	11	905	28	5 375	701.0	1984	88 05 - GPP
16	5.00	0.260	0.19	0.97	13	985	31	5 224	694.4	1987	88 06 - GPP
16	10.80	0.170	0.44	0.96	13	985	31		1 045.4	1987	88 07 - SUSP 88 03
16	0.80	0.180	0.41	0.96	13	985	31		955.9	1988	89 03 - GPP
16	7.20	0.290	0.11	0.96	13	985	31		694.1	1987	89 08 - GPP
16	2.00	0.270	0.20	0.96	13	985	31		688.6	1988	89 08 - ABAND 89 05
16	5.40	0.240	0.31	0.96	13	985	31		958.3	1988	89 11 - GPP
394	1.91	0.220	0.33	0.92	32	871	32	6 175	946.9	1985	89 10 - GPP

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
PROVOST 036-07W4 (CONTINUED)								
COLONY A	81.9	<0.01		0.5		0.5	0.5	
COLONY B	309.0	<0.01		0.1		0.1	0.1	
COLONY C	69.7	0.05		3.5		3.5	1.8	1.7
COLONY D	24.3	<0.01		0.2		0.2	0.2	
SPARKY A	103.0	0.05		5.2		5.2	2.2	3.0
SPARKY B	106.0	0.05		5.3		5.3	0.6	4.7
SPARKY C	47.1	0.10		4.7		4.7	0.9	3.8
SPARKY D	31.2	0.10		3.1		3.1	1.6	1.5
SPARKY E	35.1	0.10		3.5		3.5	0.8	2.7
SPARKY F	235.0	0.05		11.8		11.8	1.1	10.7
GENERAL PETROLEUM A	31.1	0.05		1.6		1.6		1.6
GENERAL PETROLEUM B	459.0	0.03		13.8		13.8	2.1	11.7
REX A	410.0	0.05		20.5		20.5	3.6	16.9
REX B	55.9	0.10		5.6		5.6	1.5	4.1
LLOYDMINSTER W	89.4	0.10		8.9		8.9	2.9	6.0
LLOYDMINSTER DD	2 380.0			310.0	271.0	581.0	478.3	102.7
TOTAL								
PRIMARY AREA	122.0	0.13		15.9		15.9		
WATER FLOOD AREA	2 257.0	0.13	0.12	294.0	271.0	565.0		
LLOYDMINSTER EE	461.0	0.06		27.7		27.7	23.6	4.1
LLOYDMINSTER FF	129.0	0.05		6.5		6.5	3.0	3.5
LLOYDMINSTER GG	28.2	0.05		1.4		1.4	0.7	0.7
LLOYDMINSTER HH	77.6	0.05		3.9		3.9	0.8	3.1
CUMMINGS A	2 660.0	0.15		399.0		399.0	278.0	121.0
CUMMINGS B	63.0	<0.01		0.1		0.1	0.1	
CUMMINGS C	243.0	<0.01		0.1		0.1	0.1	
CUMMINGS D	14.3	<0.01		0.1		0.1	0.1	
CUMMINGS E	223.0	0.10		22.3		22.3	0.8	21.5
CUMMINGS F	264.0	0.10		26.4		26.4	14.9	11.5
CUMMINGS G	111.0	0.20		22.2		22.2	15.2	7.0
CUMMINGS H	15.5	0.05		0.8		0.8	0.3	0.5
CUMMINGS I	417.0	0.15		62.6		62.6	33.6	29.0
CUMMINGS J	80.0	0.08		6.4		6.4	3.7	2.7
CUMMINGS L	140.0	0.01		1.4		1.4	1.4	
CUMMINGS M	211.0	0.10		21.1		21.1	12.7	8.4
CUMMINGS N	236.0	0.10		23.6		23.6	9.8	13.8
CUMMINGS O	50.1	0.10		6.0		6.0	3.4	2.6
CUMMINGS P	50.2	0.10		5.0		5.0	2.4	2.6
CUMMINGS S	2 209.0	0.05		110.0		110.0	39.4	70.6
CUMMINGS T	80.3	0.10		8.0		8.0	2.3	5.7
CUMMINGS U	137.0	<0.01		0.1		0.1	0.1	
CUMMINGS V	200.0	0.10		20.0		20.0	4.9	15.1
CUMMINGS W	175.0	0.07		12.3		12.3	8.2	4.1
CUMMINGS X	242.0	0.10		24.2		24.2	8.3	15.9
CUMMINGS Y	1 190.0	0.10		119.0		119.0	25.6	93.4
CUMMINGS Z	22.9	0.05		1.1		1.1		1.1
CUMMINGS CC	46.8	0.10		4.7		4.7	2.3	2.4
CUMMINGS DD	40.8	0.10		4.1		4.1		4.1
CUMMINGS EE	165.0	0.10		16.5		16.5	5.4	11.1
CUMMINGS GG	63.2	0.05		3.2		3.2	0.3	2.9
CUMMINGS HH	48.6	0.10		4.9		4.9	1.5	3.4
CUMMINGS JJ	52.9	0.05		2.6		2.6	0.1	2.5
CUMMINGS LL	41.5	0.10		4.2		4.2	0.6	3.6
CUMMINGS NN	29.2	0.15		4.4		4.4	1.6	2.8
CUMMINGS OO	5.5	0.25		1.4		1.4	1.0	0.4
CUMMINGS PP	440.0	0.15		66.0		66.0	14.8	51.2
CUMMINGS RR	19.2	0.10		1.9		1.9	1.5	0.4
CUMMINGS WW	112.0	<0.03		2.5		2.5	2.5	
CUMMINGS XX	131.0	0.05		6.6		6.6	3.1	3.5
LOWER MANNVILLE C	169.0	0.10		16.9		16.9	9.9	7.0
LOWER MANNVILLE E	34.1	0.10		3.4		3.4	1.7	1.7
LOWER MANNVILLE H	96.0	<0.01		0.9		0.9	0.9	
LOWER MANNVILLE J	90.9	<0.01		0.7		0.7	0.7	
LOWER MANNVILLE Z	2 046.0	0.10		205.0		205.0	136.6	68.4
LOWER MANNVILLE MM	52.1	<0.05		2.4		2.4	2.4	
DINA A	2 822.0	0.20		564.0		564.0	400.9	163.1
DINA C	7 363.0	0.10		736.0		736.0	195.6	540.4
DINA E	748.0	<0.01		3.3		3.3	3.3	
DINA F	37.3	<0.01		0.3		0.3	0.3	
DINA G	286.0	<0.01		2.8		2.8	2.8	
DINA H	123.0	<0.01		0.3		0.3	0.3	

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
16	4.00	0.240	0.45	0.97	12	930	27	4 790	691.5	1982	88 12 - SUSP 86 04
16	8.00	0.300	0.17	0.97	12	976	28	5 344	699.0	1983	85 12 - ABAND 86 10
16	3.00	0.290	0.45	0.91	23	932	28	4 890	719.9	1985	85 12 - SUSP 88 08
16	1.30	0.250	0.48	0.90	20	960	29	5 192	698.7	1987	88 03 - ABAND 89 05
16	5.00	0.240	0.44	0.96	15	920	27	4 827	727.9	1986	87 08
16	4.00	0.250	0.31	0.96	13	985	31		753.2	1987	89 03
16	1.50	0.280	0.27	0.96	13	985	31		739.6	1988	89 03
16	1.20	0.220	0.23	0.96	13	985	31		757.6	1988	89 03
16	1.50	0.250	0.39	0.96	13	985	31		751.3	1988	89 03
64	2.70	0.270	0.44	0.90	37	890	30	6 516	847.7	1988	89 05
16	1.40	0.260	0.45	0.97	11	944	28	7 223	772.7	1983	88 01
32	7.70	0.280	0.30	0.95	18	889	34		856.2	1988	89 01 - GPP
64	5.00	0.214	0.35	0.92	40	887	35	5 885	811.0	1987	88 01
4	10.50	0.200	0.30	0.95	20	896	26		777.4	1988	89 04
44	1.00	0.310	0.31	0.95	21	900	28	5 574	783.1	1987	88 12
275					44	931	28	5 480	751.6	1969	88 06
22	2.46	0.290	0.20	0.97							
253	4.23	0.290	0.25	0.97							- GPP
65	3.66	0.270	0.25	0.96	23	910	24	5 480	741.9	1969	85 12
32	2.00	0.300	0.30	0.96	14	908	30	5 251	755.6	1983	85 10
16	1.10	0.300	0.45	0.97	10	908	31	4 549	775.6	1985	86 07
16	2.00	0.300	0.14	0.94	22	905	27	5 075	782.0	1987	88 10
1 450	1.66	0.190	0.40	0.97	27	876	28	6 130	834.8	1973	87 12
64	1.00	0.170	0.40	0.96	18	888	28	7 180	946.2	1979	83 12 - SUSP 80 05
16	7.00	0.280	0.20	0.97	11	988	26	3 500	840.5	1982	85 12 - SUSP 84 10
16	0.70	0.240	0.45	0.97	11	931	26	5 895	828.1	1983	84 01 - SUSP 84 08
64	2.00	0.300	0.40	0.97	9	865	35	4 959	919.0	1983	84 03
64	2.10	0.270	0.25	0.97	9	875	33	5 468	796.1	1983	84 03
64	1.50	0.240	0.48	0.93	9	866	33	5 568	832.0	1983	87 12
16	1.00	0.200	0.50	0.97	10	988	31	5 026	792.0	1983	83 09 - SUSP 87 12
256	0.87	0.280	0.31	0.97	25	910	29	5 366	787.2	1984	87 12
32	1.71	0.260	0.42	0.97	12	924	27	5 033	775.2	1984	88 12
16	4.00	0.300	0.25	0.97	13	999	27	6 117	827.0	1983	88 12 - SUSP 85 11
64	1.60	0.280	0.20	0.92	28	918	24	4 818	790.4	1984	87 12
102	1.27	0.280	0.33	0.97	15	920	32	5 627	795.3	1985	89 12
27	1.53	0.250	0.40	0.97	11	902	27	5 069	800.3	1984	88 12
23	1.50	0.250	0.40	0.97	11	902	28	5 075	764.2	1984	88 12
385	2.55	0.290	0.20	0.97	9	953	29	5 812	814.9	1986	89 10
64	1.20	0.220	0.50	0.95	21	900	28	5 631	802.8	1987	88 04
32	2.80	0.240	0.33	0.95	11	905	28	4 877	794.7	1987	88 05 - ABAND 88 01
48	2.23	0.260	0.26	0.97	11	905	28	5 488	785.6	1988	89 05
64	1.77	0.250	0.35	0.95	11	905	28		827.2	1988	89 12
64	2.28	0.270	0.36	0.96	13	985	31	4 869	805.4	1988	89 12
434	1.40	0.260	0.21	0.95	11	905	28	5 475	823.8	1987	89 05
16	1.10	0.020	0.33	0.97	13	970	31		781.6	1988	88 07
32	1.50	0.190	0.46	0.95	11	905	28	6 077	905.5	1988	88 11
32	1.20	0.200	0.44	0.95	11	905	28	5 781	852.1	1988	88 11
64	1.76	0.230	0.33	0.95	11	905	28	5 928	824.2	1988	88 11
32	1.60	0.260	0.50	0.95	11	905	28		883.4	1988	89 01 - SUSP 89 09
32	1.20	0.230	0.42	0.95	11	905	28		778.3	1988	89 02
32	1.20	0.250	0.42	0.95	11	905	28		848.8	1988	89 03
32	0.70	0.250	0.22	0.95	11	905	28		891.7	1988	89 04 - SUSP 89 11
16	1.00	0.260	0.26	0.95	11	905	28	5 920	893.5	1988	89 12
4	1.20	0.240	0.50	0.95	11	905	28	4 973	835.9	1983	89 05
89	3.46	0.220	0.32	0.95	11	905	28		821.6	1988	89 06
16	0.70	0.280	0.37	0.97	68	894	41	5 212	768.6	1985	89 12
64	1.00	0.270	0.33	0.97	7	956	29	5 575	792.0	1981	89 12 - SUSP 86 10
32	1.80	0.300	0.22	0.97	10	910	32	5 221	778.6	1985	85 09
64	2.30	0.230	0.48	0.96	18	865	32	7 000	1 028.1	1978	79 01
16	1.80	0.210	0.40	0.94	27	917	32	5 840	909.8	1976	79 05
16	3.40	0.280	0.35	0.97	10	980	27	6 099	795.3	1980	84 12 - ABAND 86 01
16	3.50	0.270	0.38	0.97	12	970	29	6 047	789.8	1980	81 01 - ABAND 82 06
128	7.05	0.280	0.12	0.92	34	900	34	5 920	910.0	1983	87 11 - GPP
16	2.80	0.240	0.50	0.97	12	963	24	6 005	915.3	1980	88 12 - SUSP 86 04
400	4.00	0.280	0.30	0.90	38	894	31	5 430	792.3	1982	87 12 - GPP
640	5.80	0.280	0.23	0.92	36	918	28	5 463	820.8	1983	89 09 - GPP
64	6.99	0.250	0.31	0.97	11	960	30	5 733	850.8	1981	84 09 - ABAND 89 05
16	1.80	0.240	0.40	0.90	41	939	30	5 927	817.9	1983	84 09 - GPP
32	4.28	0.290	0.20	0.90	28	922	31	5 733	918.1	1984	86 05 - ABAND 89 10
32	4.00	0.200	0.50	0.96	25	904	28	5 607	777.2	1984	85 03 - SUSP 85 12

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
PROVOST 036-07W4 (CONTINUED)								
DINA I	145.0	<0.01		0.1		0.1	0.1	
DINA J	123.0	<0.01		0.9		0.9	0.9	
DINA K	264.0	0.05		13.2		13.2	2.3	10.9
DINA L	† 780.0	0.25		445.0		445.0	157.6	287.4
DINA M	222.0	<0.01		0.2		0.2	0.2	
DINA N	7 693.0	0.10		769.0		769.0	442.2	326.8
DINA O	3 475.0	0.04		139.0		139.0	82.0	57.0
DINA P	131.0	<0.01		0.3		0.3	0.3	
DINA Q	262.0	0.05		13.1		13.1	3.0	10.1
DINA R	659.0	0.03		19.8		19.8	11.5	8.3
DINA S	2 609.0	0.20		522.0		522.0	366.2	155.8
DINA T	150.0	0.10		15.0		15.0	6.5	8.5
DINA U	181.0	0.15		27.2		27.2	5.8	21.4
DINA V	197.0	0.10		19.7		19.7	0.4	19.3
DINA W	† 000.0	0.30		300.0		300.0	108.2	191.8
DINA X	† 113.0	0.15		167.0		167.0	48.9	118.1
DINA Y	† 237.0	0.20		247.0		247.0	43.1	203.9
DINA Z	194.0	0.05		9.7		9.7	0.2	9.5
DINA AA	179.0	0.05		9.0		9.0	2.3	6.7
DINA BB	122.0	0.20		24.4		24.4	1.8	22.6
DINA CC	715.0	0.10		71.5		71.5	28.6	42.9
DINA DD	180.0	0.25		45.0		45.0	13.8	31.2
DINA EE	133.0	<0.01		0.4		0.4	0.4	
DINA FF	515.0	0.05		25.8		25.8	5.3	20.5
DINA GG	365.0	<0.01		0.1		0.1	0.1	
DINA HH	181.0	0.10		18.1		18.1	1.8	16.3
DINA II	446.0	0.05		22.3		22.3	2.2	20.1
DINA JJ	82.5	0.30		24.8		24.8	14.5	10.3
DINA KK	155.0	0.05		7.8		7.8	0.6	7.2
DINA LL	87.4	0.05		4.4		4.4	3.4	1.0
DINA NN	275.0	0.30		82.5		82.5	43.7	38.8
DINA OO	654.0	0.10		65.4		65.4	15.5	49.9
DINA PP	510.0	0.10		51.0		51.0	24.3	26.7
DINA QQ	38.2	<0.01		0.2		0.2	0.2	
DINA RR	542.0	0.05		27.1		27.1	6.9	20.2
DINA SS	† 100.0	0.20		220.0		220.0	194.1	25.9
DINA TT	78.2	0.05		3.9		3.9	0.5	3.4
DINA UU	18.1	0.10		1.8		1.8	0.7	1.1
DINA VV	113.0	<0.01		0.2		0.2	0.2	
DINA YY	3 470.0	0.20		694.0		694.0	104.0	590.0
DINA AAA	183.0	0.10		18.3		18.3	4.1	14.2
DINA BBB	24.3	0.25		6.1		6.1	2.9	3.2
DINA CCC	251.0	0.05		12.6		12.6	3.0	9.6
DINA EEE	76.8	0.15		11.5		11.5	9.6	1.9
DINA FFF	132.0	0.20		26.4		26.4	9.4	17.0
DINA GGG	87.3	0.25		21.8		21.8	9.3	12.5
DINA HHH	86.4	0.11		9.5		9.5	8.9	0.6
DINA III	44.7	0.10		4.5		4.5	1.1	3.4
DINA JJJ	80.0	0.05		4.0		4.0	0.2	3.8
DINA KKK	160.0	0.10		16.0		16.0	3.5	12.5
DINA LLL	29.7	0.05		1.5		1.5		1.5
DINA MMM	173.0	0.05		8.7		8.7	0.1	8.6
DINA NNN	75.6	0.10		7.6		7.6	1.0	6.6
DINA OOO	262.0	0.10		26.2		26.2	12.7	13.5
DINA PPP	875.0	0.25		219.0		219.0	45.5	173.5
DINA QQQ	53.1	0.25		13.3		13.3	3.9	9.4
DINA RRR	65.6	0.25		16.4		16.4	4.5	11.9
DINA SSS	27.6	0.10		2.8		2.8	0.1	2.7
DINA TTT	25.8	0.10		2.6		2.6	0.1	2.5
DINA UUU	336.0	0.30		101.0		101.0	34.2	66.8
DINA WWW	8.2	0.20		1.6		1.6	0.4	1.2
DINA XXX	48.3	0.10		4.8		4.8		4.8
DINA YYY	80.5	0.10		8.1		8.1	1.9	6.2
DINA ZZZ	61.5	0.25		15.4		15.4		15.4
DINA B2B	850.0	0.10		85.0		85.0	16.2	68.8
DINA E2E	† 644.0	0.10		164.0		164.0	63.6	100.4
DINA H2H	98.1	0.20		19.6		19.6		19.6
DINA O2O	939.0	0.05		47.0		47.0	15.0	32.0
DINA P2P	114.0	<0.01		0.1		0.1	0.1	
BASAL QUARTZ C	7 085.0	0.12		850.0		850.0	493.3	356.7
ELLERSLIE A	34.4	<0.03		1.1		1.1	1.1	

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
16	3.90	0.300	0.20	0.97	20	976	30	6 222	867.1	1984	88 12 - ABAND 89 08
16	4.10	0.280	0.30	0.96	23	925	29	5 489	795.8	1984	84 01 - ABAND 87 06
32	4.05	0.280	0.25	0.97	15	945	30	5 504	808.7	1984	87 01 - GPP
150	5.53	0.280	0.21	0.97	7	914	27	5 582	838.2	1984	88 12 - GPP
32	3.50	0.280	0.27	0.97	11	904	30	5 514	814.1	1984	85 08 - SUSP 85 10
494	6.67	0.290	0.17	0.97	10	934	31	5 930	836.6	1957	88 10 - GPP
269	5.67	0.290	0.19	0.97	10	928	30	5 910	834.0	1957	87 12 - GPP
16	3.50	0.290	0.17	0.97	11	946	29	5 503	823.3	1984	88 12 - SUSP 86 01
32	5.03	0.230	0.27	0.97	10	960	30	6 037	819.2	1984	86 08 - GPP
48	6.03	0.290	0.19	0.97	15	920	27	5 377	790.2	1983	86 06 - GPP
262	4.94	0.280	0.25	0.96	13	874	32	6 466	902.3	1985	88 12 - GPP
32	2.81	0.260	0.34	0.97	15	915	30	6 292	962.4	1985	88 12 - GPP
32	2.69	0.280	0.21	0.95	12	950	30	5 992	829.8	1986	88 07 - GPP
64	2.80	0.230	0.47	0.90	40	930	33	6 585	953.4	1987	87 09 - SUSP 87 11
200	2.64	0.280	0.30	0.97	32	893	34	5 734	835.1	1987	88 12 - GPP
105	9.30	0.210	0.41	0.92	33	887	34	6 635	958.9	1987	89 10 - GPP
152	3.83	0.270	0.18	0.96	14	876	34	5 964	976.5	1987	89 12 - GPP
64	3.30	0.200	0.49	0.90	41	876	34	6 215	986.4	1987	88 01 - GPP
16	7.30	0.220	0.28	0.97	7	956	27	6 565	815.2	1984	88 01 - SUSP 88 12
16	4.20	0.250	0.23	0.94	22	905	27	5 515	827.2	1987	89 12 - GPP
157	2.49	0.250	0.23	0.95	18	889	34	6 191	919.9	1987	89 08 - GPP
50	1.92	0.260	0.25	0.96	39	883	30	6 296	1 003.7	1987	89 12 - GPP
16	5.30	0.225	0.28	0.97	7	915	27	5 457	789.6	1987	88 06 - ABAND 88 04
128	3.20	0.220	0.37	0.90	33	892	34	6 884	1 004.5	1987	88 06 - GPP
32	4.50	0.290	0.10	0.97	7	915	27	6 118	790.0	1988	88 07 - ABAND 88 06
32	3.30	0.230	0.23	0.97	7	915	27	5 951	834.9	1988	88 08 - GPP
32	6.20	0.290	0.20	0.97	7	915	27	6 124	835.9	1988	88 08 - GPP
16	3.50	0.230	0.34	0.97	7	915	27	5 844	960.9	1988	89 12 - GPP
32	2.30	0.290	0.25	0.97	7	914	27	5 522	860.9	1988	88 08 - GPP
16	3.30	0.230	0.25	0.96	16	931	30	5 456	828.7	1985	86 10 - GPP
49	3.27	0.230	0.23	0.97	7	915	27	5 983	958.2	1988	89 12 - GPP
160	3.19	0.220	0.38	0.94	23	876	27	6 165	931.9	1988	89 08 - GPP
52	7.07	0.220	0.35	0.97	7	915	27	6 615	971.4	1988	89 04 - GPP
32	1.10	0.260	0.57	0.97	7	915	27		987.6	1988	88 11 - ABAND 88 05
32	8.10	0.280	0.23	0.97	7	915	27		787.4	1988	88 11 - GPP
134	4.72	0.230	0.22	0.97	7	915	27	6 047	928.6	1988	89 03 - GPP
32	1.50	0.240	0.30	0.97	7	914	27		822.3	1988	88 11 - SUSP 88 12
4	3.20	0.250	0.41	0.96	14	876	33	6 423	995.1	1988	88 11 - GPP
16	4.00	0.250	0.27	0.97	7	915	27	5 030	808.0	1988	88 12 - ABAND 89 02
674	2.76	0.260	0.26	0.97	7	915	27		840.3	1988	89 07 - GPP
32	4.00	0.180	0.18	0.97	7	914	27		985.7	1988	89 01 - GPP
8	2.85	0.180	0.39	0.97	7	914	27	6 457	931.1	1988	89 01 - GPP
64	4.00	0.220	0.53	0.95	18	879	33		981.7	1988	89 01 - GPP
16	5.00	0.180	0.45	0.97	7	915	27		922.6	1988	89 12 - GPP
32	3.72	0.220	0.48	0.97	9	935	28		981.6	1988	89 03 - GPP
45	1.42	0.220	0.36	0.97	9	935	28		823.8	1988	89 10 - GPP
16	3.90	0.210	0.32	0.97	9	935	28		974.4	1988	89 12 - GPP
16	2.80	0.210	0.51	0.97	9	935	28		1 058.8	1988	89 03 - GPP
16	3.90	0.210	0.37	0.97	9	935	28		969.2	1988	89 03 - GPP
16	7.00	0.230	0.36	0.97	9	935	28		1 009.0	1988	89 03 - GPP
16	1.60	0.210	0.43	0.97	9	935	28		835.2	1988	89 03 - GPP
16	5.50	0.260	0.22	0.97	9	935	28		801.3	1988	89 03 - SUSP 88 12
16	3.50	0.240	0.42	0.97	9	935	28		977.8	1988	89 03 - GPP
32	4.30	0.250	0.21	0.97	9	935	28		943.0	1988	89 03 - GPP
160	3.01	0.240	0.22	0.97	9	935	28	6 154	819.4	1988	89 10 - GPP
8	3.85	0.230	0.21	0.95	9	935	28		922.9	1988	89 04 - GPP
8	4.76	0.250	0.29	0.97	9	935	28		932.5	1988	89 04 - GPP
16	1.80	0.190	0.48	0.97	9	935	28		921.1	1988	89 04 - GPP
4	7.00	0.190	0.50	0.97	9	935	28		984.9	1988	89 04 - GPP
24	7.71	0.260	0.28	0.97	9	935	28	6 375	982.2	1988	89 12 - GPP
4	2.30	0.210	0.56	0.97	9	935	28		940.9	1988	89 05 - GPP
16	3.60	0.160	0.46	0.97	9	935	28		808.0	1988	89 05 - GPP
16	4.00	0.240	0.46	0.97	9	935	28		978.4	1988	89 05 - GPP
4	8.80	0.250	0.28	0.97	9	935	28		966.7	1988	89 05 - GPP
228	2.90	0.250	0.47	0.97	36	850	38	7 163	1 061.6	1981	89 11 - GPP
155	5.80	0.280	0.29	0.92	36	900	28		835.9	1979	89 09 - GPP
16	6.40	0.190	0.48	0.97	9	935	28		936.9	1988	89 10 - GPP
206	2.30	0.280	0.27	0.97	11	917	31	5 207	788.5	1981	89 08 - GPP
16	3.50	0.300	0.30	0.97	7	910	27	4 992	779.0	1984	89 12 - SUSP 87 05
400	8.55	0.290	0.24	0.94	25	921	33	5 827	892.6	1977	88 12 - GPP
32	1.50	0.130	0.40	0.92	34	917	35	5 722	914.1	1981	85 12 - ABAND 84 08

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE 10 ³ m ³	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION 10 ³ m ³	REMAINING ESTABLISHED RESERVES 10 ³ m ³
		PRIMARY frac	ENHANCED frac	PRIMARY 10 ³ m ³	ENHANCED 10 ³ m ³	TOTAL 10 ³ m ³		
PROVDST 036-07W4 (CONTINUED) ELLERSLIE F	247.0	0.10		24.7		24.7	4.2	20.5
RAINIER 017-15W4 GLAUCONITIC A	400.0	0.10		40.0		40.0	32.2	7.8
GLAUCONITIC E TOTAL	840.0			84.0	81.0	165.0	101.2	63.8
PRIMARY AREA	300.0	0.10		30.0		30.0		
WATER FLOOD AREA	540.0	0.10	0.15	54.0	81.0	135.0		
BASAL QUARTZ A	38.3	<0.01		0.2		0.2	0.2	
REAGAN 001-19W4 RUNDLE A	460.0	0.18		82.8		82.8	75.9	6.9
RED COULEE 001-17W4 CUT BANK B	1 010.0	0.05		50.5		50.5	43.6	6.9
CUT BANK C	158.0	0.03		4.7		4.7	1.9	2.8
RUNDLE A	71.5	0.15		10.8		10.8	10.5	0.3
RUNDLE B	36.5	0.02		0.7		0.7	0.7	
RETLOW 012-18W4 MANNVILLE I	1 270.0	0.12		152.0		152.0	127.5	24.5
MANNVILLE O	124.0	<0.02		1.7		1.7	1.7	
MANNVILLE Q	183.0	<0.01		0.1		0.1	0.1	
MANNVILLE R	238.0	0.05		11.9		11.9	7.7	4.2
MANNVILLE V	2 210.0	0.10		221.0		221.0	55.6	165.4
MANNVILLE W	371.0	0.04		14.8		14.8	9.4	5.4
MANNVILLE EE	320.0	0.06		19.2		19.2	12.1	7.1
MANNVILLE FF	178.0	<0.01		0.1		0.1		0.1
MANNVILLE GG	92.7	<0.01		0.1		0.1	0.1	
MANNVILLE MM	90.4	<0.01		0.4		0.4	0.4	
MANNVILLE PP	174.0	0.10		17.4		17.4	8.2	9.2
MANNVILLE UU	44.8	<0.01		0.1		0.1	0.1	
MANNVILLE WW	244.0	<0.01		0.1		0.1	0.1	
MANNVILLE AAA	195.0	<0.01		1.2		1.2	1.2	
MANNVILLE BBB	1 300.0	0.05		65.0		65.0	24.1	40.9
MANNVILLE FFF	207.0	0.07		14.5		14.5	9.8	4.7
MANNVILLE JJJ	54.1	<0.03		1.5		1.5	1.5	
MANNVILLE KKK	105.0	0.10		10.5		10.5	1.7	8.8
MANNVILLE OOO	97.3	0.10		9.7		9.7	8.1	1.6
MANNVILLE TTT	21.3	0.05		1.1		1.1	1.1	
MANNVILLE B2B	44.1	<0.01		0.1		0.1	0.1	
MANNVILLE F2F	76.0	<0.01		0.4		0.4	0.4	
MANNVILLE G2G	405.0	0.10		40.5		40.5	4.1	36.4
MANNVILLE N2N	57.4	<0.01		0.1		0.1	0.1	
MANNVILLE P2P	55.0	0.10		5.5		5.5	1.3	4.2
MANNVILLE Q2Q	201.0	0.08		16.1		16.1	1.4	14.7
MANNVILLE R2R	101.0	0.10		10.1		10.1	0.1	10.0
MANNVILLE T2T	41.4	0.10		4.1		4.1	1.2	2.9
RIBSTONE 043-04W4 SPARKY A	3 184.0	0.05		159.0		159.0	59.4	99.6
SPARKY B	162.0	0.10		16.2		16.2	12.3	3.9
GENERAL PETROLEUM A	71.5	0.07		5.0		5.0	3.3	1.7
LLOYDMINSTER A	373.0	0.02		7.5		7.5	2.7	4.8
LLOYDMINSTER B	163.0	0.01		1.6		1.6	1.6	
LLOYDMINSTER C	41.9	<0.01		0.1		0.1	0.1	
LLOYDMINSTER D	28.2	0.05		1.4		1.4	0.8	0.6
NISKU B	506.0	0.05		25.3		25.3	12.4	12.9
NISKU C	125.0	<0.02		1.5		1.5	1.5	
NISKU D	222.0	0.05		11.1		11.1	2.3	8.8
NISKU E	267.0	0.05		13.3		13.3	1.3	12.0
NISKU A & CAMROSE A	1 031.0	0.10		103.0		103.0	52.1	50.9
RICHDALE 030-13W4 LOWER MANNVILLE G	80.0	0.15		12.0		12.0	8.1	3.9
RIVERCOURSE 047-01W4 COLONY A	245.0	<0.03		6.2		6.2	6.2	
COLONY B	265.0	<0.06		2.9		2.9	2.9	
COLONY G	98.2	0.05		4.9		4.9	2.4	2.5
SPARKY A	307.0	0.10		30.7		30.7	26.2	4.5
SPARKY B	283.0	0.03		8.5		8.5	6.1	2.4

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
32	4.30	0.260	0.25	0.92	40	900	32	7 349	1 054.4	1987	87 10
49	4.35	0.260	0.18	0.88	41	888	28	11 076	1 032.0	1981	87 12
186					60	867	31	10 980	1 028.2	1981	86 12
122	1.40	0.250	0.20	0.88							
64	4.80	0.250	0.20	0.88							- GPP
32	1.40	0.160	0.40	0.89	40	905	21	11 128	1 066.3	1980	84 12 - ABAND 86 10
274	2.78	0.110	0.27	0.75	127	844	29	7 580	1 094.2	1958	81 12 - GPP
229	4.18	0.180	0.37	0.93	32	904	27	6 030	838.2	1960	85 12 - GPP
32	5.91	0.180	0.42	0.80	32	904	30	6 000	896.0	1966	86 02
21	5.61	0.110	0.25	0.75	32	910	28	6 270	948.2	1961	75 12 - GPP
16	3.66	0.110	0.25	0.75	32	904	28	6 210	879.7	1967	77 04 - SUSP 68 12
454	2.13	0.218	0.30	0.86	64	921	39	11 580	1 086.1	1964	88 12 - GPP
65	1.77	0.172	0.27	0.86	45	946	37	11 810	1 106.7	1971	72 02 - ABAND 72 10
65	2.74	0.190	0.37	0.86	66	921	41	11 893	1 065.6	1971	74 04 - ABAND 74 03
96	2.25	0.197	0.35	0.86	14	921	38	11 550	1 091.1	1974	79 12
1 056	1.53	0.200	0.23	0.89	57	946	32	11 720	1 069.5	1976	85 09
96	3.53	0.185	0.32	0.87	57	921	32	12 030	1 134.9	1976	87 03 - GPP
192	1.99	0.150	0.35	0.86	62	910	34	11 690	1 089.0	1978	88 12 - GPP
65	3.05	0.160	0.35	0.87	59	910	35	11 690	1 121.0	1978	78 12 - ABAND 82 07
16	5.50	0.180	0.35	0.90	44	965	35	11 860	1 109.0	1978	82 12 - SUSP 79 10
32	1.80	0.220	0.18	0.87	50	922	37	11 880	1 093.0	1979	85 12 - SUSP 84 02
32	4.80	0.200	0.35	0.87	89	916	37	11 542	1 072.5	1979	89 12
16	2.78	0.180	0.35	0.86	66	959	35	10 337	1 104.1	1980	83 12 - SUSP 81 06
32	5.50	0.230	0.30	0.86	60	921	38	11 785	1 108.4	1977	85 12 - SUSP 81 03
16	17.97	0.150	0.48	0.87	54	917	32	11 146	1 075.7	1980	83 12 - SUSP 83 11
423	2.93	0.180	0.33	0.87	60	915	37	11 808	1 053.3	1981	84 10 - GPP
32	8.13	0.142	0.35	0.86	60	891	35	11 310	1 075.9	1981	89 12
32	1.30	0.240	0.37	0.86	60	930	32	11 703	1 101.4	1981	84 12 - SUSP 82 08
32	3.70	0.188	0.45	0.86	68	921	33	11 555	1 102.3	1981	84 12
32	3.40	0.160	0.35	0.86	62	925	32	11 394	1 110.5	1978	83 12
16	1.14	0.180	0.27	0.89	56	911	36	11 880	1 097.7	1982	88 12 - ABAND 83 10
32	1.50	0.180	0.40	0.85	64	920	33	11 635	1 094.7	1960	88 12 - SUSP 86 03
16	4.00	0.200	0.34	0.90	44	994	33	12 859	1 161.0	1984	85 06 - ABAND 87 08
32	6.50	0.270	0.19	0.89	57	910	36	11 281	1 091.8	1985	85 07
32	3.00	0.160	0.56	0.85	65	925	30	11 662	1 138.6	1987	88 01 - ABAND 88 01
64	0.80	0.170	0.22	0.81	92	872	31	11 932	1 076.5	1988	88 07
16	27.00	0.110	0.53	0.90	62	950	92	11 061	1 067.0	1980	80 11
64	1.50	0.190	0.41	0.94	20	884	33	11 544	1 129.3	1988	88 10 - SUSP 89 04
32	1.20	0.190	0.34	0.86	64	921	33		1 100.3	1960	89 09
230	9.40	0.260	0.41	0.96	80	915	29	4 500	689.5	1979	89 08
43	2.76	0.250	0.43	0.96	15	956	29	1 059	669.0	1971	89 10
32	1.21	0.280	0.32	0.97	11	952	30	4 780	652.6	1985	87 12
65	3.05	0.280	0.30	0.96	40	946	29	4 860	661.4	1972	77 12
32	2.40	0.300	0.27	0.97	14	939	26	3 046	642.5	1975	88 12 - SUSP 86 04
16	1.80	0.300	0.50	0.97	12	959	42	4 662	666.9	1986	87 01 - ABAND 89 03
16	0.90	0.300	0.32	0.96	16	984	27	5 110	683.9	1976	82 11 - SUSP 87 12
48	9.84	0.180	0.38	0.96	16	955	27	4 415	727.2	1985	86 01
16	8.00	0.175	0.42	0.96	16	955	27	4 280	657.0	1985	86 01 - ABAND 87 10
16	11.00	0.175	0.25	0.96	16	955	27	4 025	667.3	1985	86 01
48	5.29	0.148	0.26	0.96	16	953	26	5 195	724.3	1973	88 07
144	8.07	0.150	0.39	0.97	16	959	29	4 453	660.6	1985	88 12
64	1.53	0.170	0.46	0.89	44	916	38	9 500	1 104.3	1978	85 12 - GPP
49	1.92	0.300	0.10	0.97	9	946	24	3 486	527.9	1965	75 07 - SUSP 71 04
16	6.15	0.340	0.20	0.99	9	972	26	3 500	521.9	1977	82 12 - SUSP 83 07
16	2.50	0.310	0.20	0.99	9	971	25	3 500	532.3	1981	82 06 - SUSP 88 10
48	2.56	0.300	0.16	0.99	5	965	23	3 450	570.6	1974	84 12 - SUSP 89 09
32	3.70	0.290	0.17	0.99	9	999	23	4 100	591.0	1978	88 12 - GPP

TABLE 2-4

FIELD POOL	1	2	3	4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
RIVERCOURSE 047-01W4 (CONTINUED)								
SPARKY C	263.0	0.01		2.6		2.6	1.9	0.7
SPARKY D	186.0	<0.02		3.2		3.2	3.2	
SPARKY E	65.2	0.05		3.3		3.3	1.3	2.0
GENERAL PETROLEUM A	83.5	0.03		2.5		2.5		2.5
CUMMINGS A	3 180.0	0.03		95.4		95.4	74.7	20.7
RONALANE 013-12W4								
UPPER MANNVILLE A	1 735.0	0.10		174.0		174.0	54.3	119.7
LOWER MANNVILLE A	149.0	<0.01		1.2		1.2	1.2	
LOWER MANNVILLE E	314.0	0.03		9.4		9.4	5.4	4.0
LOWER MANNVILLE F	163.0	0.10		16.3		16.3	7.1	9.2
SAWTOOTH A	196.0	0.10		19.6		19.6	6.1	13.5
SAWTOOTH B	4 836.0	0.30		1 451.0		1 451.0	367.3	1 083.7
SAWTOOTH C	1 225.0	0.15		184.0		184.0	107.0	77.0
SAWTOOTH G	172.0	0.15		25.8		25.8	10.3	15.5
SAWTOOTH J	1 057.0	0.20		212.0		212.0	27.2	184.8
SAWTOOTH K	820.0	0.20		164.0		164.0	84.6	79.4
SAWTOOTH L	750.0	0.10		75.0		75.0	12.7	62.3
SAWTOOTH O	485.0	0.20		97.0		97.0	40.4	56.6
SAWTOOTH P	236.0	0.15		35.4		35.4	11.6	23.8
SAWTOOTH R	147.0	0.10		14.7		14.7	0.9	13.8
RUMSEY 033-21W4								
GLAUCONITIC F	204.0	<0.01		0.4		0.4	0.4	
GLAUCONITIC H	61.4	0.15		9.2		9.2	4.9	4.3
LOWER MANNVILLE E	156.0	0.10		15.6		15.6	0.2	15.4
LOWER MANNVILLE F	417.0	0.15		62.5		62.5	11.5	51.0
SEDGEWICK 042-12W4								
BASAL MANNVILLE C	117.0	0.10		11.7		11.7	3.5	8.2
SIBBALD 027-02W4								
UPPER MANNVILLE C	5 541.0			332.0	958.0	1 290.0	616.6	673.4
TOTAL								
PRIMARY AREA	750.0	0.06		45.0		45.0		
WATER FLOOD AREA	4 791.0	0.06	0.20	287.0	958.0	1 245.0		
UPPER MANNVILLE D	40.1	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE B	138.0	<0.01		0.1		0.1	0.1	
SKIFF 005-14W4								
SAWTOOTH A	1 430.0	0.15		215.0		215.0	112.3	102.7
SAWTOOTH B	133.0	0.10		13.3		13.3	7.0	6.3
SAWTOOTH C	12.1	<0.08		0.9		0.9	0.9	
ST. ANNE 054-05W5								
NORDEGG A	84.9	0.10		8.5		8.5	2.0	6.5
BANFF A	488.0	0.05		24.4		24.4	13.4	11.0
BANFF B	193.0	0.05		9.6		9.6	1.6	8.0
BANFF F	89.5	0.15		13.4		13.4	2.8	10.6
BANFF G	37.1	0.20		7.4		7.4	3.9	3.5
BANFF H	319.0	<0.01		0.2		0.2	0.2	
BANFF I	146.0	0.10		14.6		14.6	1.1	13.5
BANFF J	140.0	0.15		21.0		21.0	4.3	16.7
BANFF C & D	1 672.0	0.10		167.0		167.0	115.7	51.3
STANMORE 029-11W4								
UPPER MANNVILLE AA	398.0	0.06		23.9		23.9	16.5	7.4
STROME 043-16W4								
ELLERSLIE A	37.3	0.06		2.2		2.2	2.2	
ELLERSLIE C	109.0	<0.01		0.1		0.1		0.1
SUFFIELD 018-06W4								
UPPER MANNVILLE A	4 631.0	0.02		92.6		92.6	68.3	24.3
UPPER MANNVILLE D	882.0	0.02		17.6		17.6	7.5	10.1
UPPER MANNVILLE F	346.0	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE H	1 320.0	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE J	40 100.0	0.03		1 203.0		1 203.0	982.1	220.9
UPPER MANNVILLE N	487.0	0.05		24.4		24.4	10.0	14.4
UPPER MANNVILLE O	137.0	<0.01		0.3		0.3	0.3	
UPPER MANNVILLE Q	169.0	<0.01		0.1		0.1	0.1	

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
32	3.45	0.290	0.17	0.99	9	980	23	4 090	589.6	1978	80 10 - SUSP 89 09
16	4.60	0.300	0.15	0.99	9	970	23	4 097	590.3	1978	82 06 - SUSP 85 05
16	2.00	0.300	0.30	0.97	12	950	23	4 118	606.2	1978	86 11 - SUSP 88 09
16	2.00	0.310	0.15	0.99	10	984	25		603.0	1981	89 06 - GPP
224	6.25	0.290	0.20	0.98	9	989	22	3 040	641.3	1978	85 12 - GPP
179	6.54	0.240	0.35	0.95	15	940	34	10 583	953.8	1985	89 08 - GPP
32	3.05	0.270	0.35	0.86	66	887	33	10 980	952.5	1972	83 12 - ABAND 87 12
32	9.40	0.200	0.42	0.90	42	925	31	10 276	920.2	1984	87 12 - GPP
16	6.80	0.280	0.42	0.92	34	921	32	9 997	952.3	1986	87 02
16	8.40	0.250	0.40	0.97	10	950	33	10 371	957.7	1985	85 10
600	5.05	0.240	0.30	0.95	29	900	32	10 529	947.6	1985	89 12 - GPP
208	4.92	0.240	0.42	0.86	67	881	27	10 760	922.0	1975	87 02 - GPP
16	8.20	0.230	0.40	0.95	17	908	33	10 676	945.3	1986	86 08
80	9.38	0.260	0.43	0.95	18	919	33	9 962	940.1	1986	87 08 - GPP
233	3.38	0.220	0.45	0.86	40	870	32	6 500	938.8	1967	88 12 - GPP
64	6.50	0.280	0.30	0.92	30	884	33	10 625	905.8	1986	87 08 - GPP
64	4.79	0.256	0.35	0.95	18	932	33		944.4	1987	89 12 - GPP
32	3.57	0.275	0.21	0.95	18	931	33	10 351	948.1	1988	89 11 - GPP
32	5.50	0.200	0.51	0.85	64	919	28		940.5	1988	89 10
64	4.40	0.170	0.50	0.85	50	900	44	10 034	1 403.8	1984	85 11 - ABAND 86 09
64	1.30	0.140	0.38	0.85	57	845	40	8 487	1 454.8	1986	87 11
64	4.00	0.130	0.43	0.82	56	882	53	8 660	1 450.0	1987	88 01 - SUSP 87 10
128	3.06	0.190	0.37	0.89	52	882	46	8 942	1 437.8	1987	88 01
32	2.00	0.280	0.30	0.93	28	920	30	4 047	916.0	1984	84 11 - GPP
949					21	963	28	9 140	885.7	1977	89 12
181	3.41	0.256	0.50	0.95							
768	3.35	0.280	0.30	0.95							
16	2.00	0.240	0.45	0.95	22	962	28	9 253	868.0	1980	88 12 - SUSP 80 05
16	5.00	0.330	0.45	0.95	66	866	64	8 980	862.5	1980	80 09 - SUSP 80 08
716	1.74	0.180	0.25	0.85	30	941	33	9 190	922.1	1964	88 12
64	1.84	0.170	0.26	0.90	30	940	31	9 368	916.5	1983	86 05
16	1.00	0.120	0.30	0.90	22	964	31	9 320	919.0	1981	86 12 - ABAND 88 08
16	7.30	0.130	0.35	0.86	50	945	45	12 238	1 416.2	1984	86 07
32	9.80	0.190	0.09	0.90	54	919	43	13 332	1 456.6	1978	83 11 - GPP
32	7.56	0.160	0.44	0.89	45	947	43	13 400	1 454.6	1981	85 12 - SUSP 88 11
16	4.00	0.210	0.26	0.90	60	932	38	9 932	1 438.2	1985	85 06 - GPP
32	1.50	0.120	0.30	0.92	45	940	44	13 418	1 466.0	1984	89 12 - GPP
32	9.89	0.178	0.37	0.90	50	904	45	13 241	1 463.5	1984	85 07 - ABAND 87 03
32	5.30	0.150	0.35	0.88	50	920	45	13 144	1 452.0	1985	85 10
16	8.40	0.200	0.40	0.87	50	904	45	13 043	1 447.7	1985	86 04 - GPP
161	11.51	0.170	0.39	0.87	54	954	43	13 393	1 442.1	1981	88 05 - GPP
128	1.90	0.240	0.26	0.92	28	939	35	8 336	1 035.1	1973	89 12
16	1.50	0.210	0.22	0.95	20	936	30	7 434	1 040.8	1969	88 12 - SUSP 86 05
16	5.40	0.180	0.26	0.95	20	979	30	6 986	1 107.6	1986	87 11 - ABAND 88 04
400	6.86	0.250	0.25	0.90	35	986	36	11 020	939.4	1976	89 12
64	7.47	0.260	0.22	0.91	43	940	32	9 890	966.6	1977	88 12
16	11.89	0.250	0.20	0.91	35	937	28	11 120	938.2	1977	82 12 - SUSP 77 05
65	12.19	0.270	0.32	0.91	30	972	31	10 050	909.8	1977	78 03 - SUSP 78 01
2 190	10.60	0.250	0.24	0.91	27	979	28	10 410	923.6	1977	87 12 - GPP
32	8.04	0.260	0.20	0.91	30	971	32	10 000	956.8	1978	86 11
16	6.40	0.210	0.30	0.91	30	982	32	10 160	994.3	1978	88 12 - SUSP 86 03
16	6.50	0.270	0.34	0.91	43	983	30	10 400	926.8	1979	80 02 - ABAND 80 08

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
SUFFIELD 018-06W4 (CONTINUED)								
UPPER MANNVILLE R	115.0	<0.01		0.8		0.8	0.8	
UPPER MANNVILLE S	114.0	<0.01		0.4		0.4	0.4	
UPPER MANNVILLE T	265.0	0.05		13.3		13.3	2.8	10.5
UPPER MANNVILLE U	384.0	0.10		38.4		38.4	27.5	10.9
UPPER MANNVILLE V	229.0	<0.02		2.7		2.7	2.7	
UPPER MANNVILLE W	66.6	<0.01		0.2		0.2	0.2	
UPPER MANNVILLE X	59.2	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE Y	249.0	<0.01		0.8		0.8	0.8	
UPPER MANNVILLE Z	187.0	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE EE	71.0	<0.01		0.5		0.5	0.5	
UPPER MANNVILLE FF	1 573.0	0.03		47.2		47.2	2.0	45.2
UPPER MANNVILLE HH	200.0	0.10		20.0		20.0	5.3	14.7
UPPER MANNVILLE II	1 030.0	0.01		10.3		10.3	0.1	10.2
LOWER MANNVILLE A	396.0	<0.01		0.2		0.2	0.2	
LOWER MANNVILLE B	65.9	<0.01		0.4		0.4	0.4	
LOWER MANNVILLE C	93.1	0.05		4.7		4.7	4.7	
LOWER MANNVILLE D	77.1	<0.01		0.2		0.2	0.2	
LOWER MANNVILLE E	104.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE G	136.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE H	67.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE I	88.1	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE J	80.4	<0.02		1.2		1.2	1.2	
LOWER MANNVILLE K	123.0	0.05		6.4		6.4	2.4	4.0
LOWER MANNVILLE L	156.0	<0.02		1.7		1.7	1.7	
LOWER MANNVILLE M	100.0	0.05		5.0		5.0	3.2	1.8
LOWER MANNVILLE N	150.0	0.06		9.0		9.0	7.9	1.1
LOWER MANNVILLE P	1 660.0	0.10		166.0		166.0	115.9	50.1
PEKISKO A	431.0	0.05		21.6		21.6	0.7	20.9
PEKISKO B	60.6	0.10		6.1		6.1	0.1	6.0
SUNNYNOOK 026-11W4								
BASAL MANNVILLE F	120.0	<0.01		0.8		0.8	0.8	
SUPERBA 026-03W4								
DETRITAL A	213.0	<0.01		0.1		0.1	0.1	
SWIMMING 052-06W4								
UPPER MANNVILLE A	92.6	<0.01		0.4		0.4	0.4	
UPPER MANNVILLE C	817.0	<0.03		0.9		0.9	0.9	
COLONY A	89.8	<0.02		1.3		1.3	1.3	
COLONY D	129.0	<0.04		0.2		0.2	0.2	
SPARKY A	98.8	<0.01		0.4		0.4	0.4	
SPARKY B	64.3	<0.01		0.1		0.1	0.1	
GENERAL PETROLEUM A	148.0	0.03		4.4		4.4	1.0	3.4
GENERAL PETROLEUM B	208.0	0.05		10.4		10.4	6.9	3.5
TABER 009-17W4								
MANNVILLE A	1 439.0	0.20		288.0		288.0	229.6	58.4
MANNVILLE C	572.0	0.08		45.8		45.8	28.4	17.4
MANNVILLE D TOTAL	12 100.0			890.0	1 730.0	2 620.0	1 996.0	624.0
PRIMARY AREA	2 500.0	0.10		250.0		250.0		
WATER FLOOD AREA	9 600.0	<0.07	0.18	640.0	1 730.0	2 370.0		
MANNVILLE E	25.3	<0.01		0.1		0.1	0.1	
MANNVILLE F	1 057.0	0.06		63.4		63.4	48.9	14.5
MANNVILLE G	529.0	0.01		5.3		5.3	4.5	0.8
MANNVILLE K	406.0	0.18		73.1		73.1	47.8	25.3
MANNVILLE L	11.8	<0.01		0.1		0.1	0.1	
MANNVILLE M	129.0	<0.01		0.2		0.2	0.2	
MANNVILLE N	39.6	<0.01		0.2		0.2	0.2	
MANNVILLE O	59.7	0.10		6.0		6.0	0.1	5.9
GLAUCONITIC A	84.2	<0.02		1.0		1.0	1.0	
TABER NORTH 011-16W4								
GLAUCONITIC A	8 000.0	0.35		2 800.0		2 800.0	1 238.9	1 561.1
GLAUCONITIC C TOTAL	2 654.0			317.0	90.0	406.0	273.4	132.6
PRIMARY	64.3	0.10		6.4		6.4		
WATER FLOOD AREA	2 590.0	<0.12	0.04	311.0	90.0	400.0		
GLAUCONITIC D	35.3	<0.01		1.0		1.0	1.0	
GLAUCONITIC E	1 940.0	0.20		388.0		388.0	169.0	219.0
GLAUCONITIC H	234.0	0.10		23.4		23.4	7.7	15.7
GLAUCONITIC J	54.3	0.10		5.4		5.4	4.1	1.3

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
16	5.50	0.200	0.30	0.93	34	957	31	9 230	994.0	1980	89 12 - SUSP 86 03
16	5.20	0.250	0.40	0.91	42	982	32	10 432	894.0	1980	80 07 - SUSP 85 04
16	10.00	0.280	0.35	0.91	29	982	26	10 943	927.0	1980	86 12
32	7.03	0.250	0.25	0.91	37	951	21	10 569	959.3	1980	87 04
16	9.00	0.250	0.30	0.91	20	966	25	10 563	924.0	1980	88 12 - SUSP 86 03
16	2.60	0.220	0.20	0.91	44	951	30	10 233	950.3	1980	83 12 - SUSP 83 12
16	2.30	0.250	0.30	0.92	37	958	32	10 406	952.2	1980	83 12 - SUSP 80 09
32	7.30	0.180	0.35	0.91	37	925	29	10 188	962.2	1981	82 08 - SUSP 85 08
64	1.50	0.330	0.35	0.91	35	967	31	9 834	1 004.5	1976	88 12 - SUSP 83 09
16	4.00	0.200	0.41	0.94	37	959	35	10 721	986.2	1977	84 08 - ABAND 85 10
32	23.20	0.280	0.17	0.91	28	983	27	9 131	935.8	1986	87 08 - SUSP 88 04
26	4.05	0.260	0.23	0.95	28	967	24	9 623	962.0	1987	89 12
16	32.40	0.280	0.22	0.91	28	982	27		941.1	1988	88 09
65	7.01	0.160	0.40	0.91	35	952	35	9 590	1 001.9	1976	76 11 - SUSP 77 06
16	2.13	0.280	0.25	0.91	34	952	33	10 180	982.0	1977	83 12 - ABAND 86 03
32	2.46	0.200	0.35	0.91	27	972	34	9 080	951.6	1977	89 12 - SUSP 86 10
16	3.35	0.240	0.35	0.91	32	965	32	10 780	981.5	1977	78 04 - ABAND 78 05
16	4.57	0.220	0.30	0.91	32	959	27	10 960	1 008.0	1977	83 12 - ABAND 82 01
16	7.32	0.210	0.40	0.91	47	999	25	10 110	904.0	1978	78 11 - SUSP 78 12
16	3.30	0.210	0.35	0.93	30	986	33	10 060	914.9	1978	79 05 - SUSP 78 12
16	6.10	0.190	0.50	0.95	9	995	32	10 520	892.5	1978	88 12 - SUSP 78 12
16	3.40	0.250	0.35	0.91	30	969	35	10 560	1 006.0	1978	79 04 - ABAND 80 04
16	5.70	0.220	0.30	0.91	45	943	45	10 600	967.0	1980	80 09
16	6.30	0.230	0.25	0.90	27	978	31	11 166	967.3	1979	81 03 - ABAND 89 03
32	2.08	0.330	0.50	0.91	34	951	36	10 565	997.7	1982	83 12 - SUSP 88 11
16	7.21	0.210	0.32	0.91	44	965	35	10 660	972.2	1978	84 08 - GPP
112	9.72	0.240	0.30	0.91	37	952	32	10 690	975.7	1976	85 12 - GPP
64	13.50	0.080	0.30	0.89	47	894	34		983.5	1988	88 10
16	9.30	0.060	0.30	0.97	10	977	32		984.3	1988	88 12
32	2.00	0.250	0.20	0.94	27	940	35	10 070	1 059.0	1978	83 12 - SUSP 79 08
16	8.50	0.300	0.45	0.95	18	958	34	9 135	930.2	1981	85 12 - SUSP 83 04
16	2.10	0.320	0.13	0.99	10	977	25	4 190	565.6	1978	83 12 - ABAND 83 05
16	19.10	0.300	0.10	0.99	10	985	25	4 937	509.7	1981	82 07
16	3.00	0.270	0.30	0.99	10	985	25	4 854	502.5	1980	88 12 - SUSP 86 09
16	3.20	0.300	0.15	0.99	10	999	28	5 009	518.6	1980	82 10 - ABAND 84 08
16	3.20	0.300	0.35	0.99	7	985	25	3 904	536.4	1979	88 12 - SUSP 86 09
16	2.00	0.290	0.30	0.99	7	994	25	4 011	547.5	1979	84 07 - ABAND 84 01
16	4.20	0.310	0.28	0.99	9	987	27	4 251	571.9	1983	84 07 - SUSP 87 11
16	6.00	0.300	0.27	0.99	9	976	27	4 285	575.5	1980	82 05
300	3.74	0.210	0.35	0.94	23	921	33	10 180	983.0	1944	88 12 - GPP
48	8.73	0.220	0.34	0.94	20	946	38	10 760	986.0	1962	89 12 - GPP
1 459					16	940	36	10 595	973.6	1942	89 12
319	5.92	0.210	0.35	0.97							
1 140	6.20	0.209	0.33	0.97							- GPP
16	1.83	0.150	0.40	0.95	28	940	16	10 470	964.7	1974	78 11 - SUSP 78 07
152	5.42	0.210	0.35	0.94	23	921	33	10 780	983.3	1944	89 12 - GPP
142	3.10	0.200	0.36	0.94	23	946	33	10 395	995.5	1944	83 12 - GPP
100	3.32	0.200	0.35	0.94	23	921	33	10 422	993.0	1944	84 12 - GPP
16	1.00	0.150	0.49	0.96	15	955	36	9 986	972.5	1984	85 06 - SUSP 85 08
32	4.80	0.175	0.50	0.96	15	930	36	9 222	1 003.3	1985	85 10 - SUSP 85 12
16	2.30	0.170	0.34	0.96	15	928	23	10 675	956.9	1985	86 04 - SUSP 86 03
16	4.39	0.167	0.47	0.96	15	947	33		968.2	1988	89 05
64	1.00	0.200	0.30	0.94	17	947	29	11 177	977.5	1983	88 12 - SUSP 86 03
386	11.70	0.240	0.21	0.93	17	879	30	10 650	948.5	1979	84 09
408					57	894	30	11 382	979.1	1980	88 08 - GPP
64	1.10	0.140	0.25	0.87							
344	6.08	0.190	0.25	0.87							
16	4.80	0.100	0.50	0.92	36	937	32	7 429	974.5	1981	89 12 - SUSP 87 07
184	5.78	0.240	0.20	0.95	17	899	29	10 765	951.0	1978	86 01
32	5.50	0.200	0.30	0.95	17	899	29	10 096	959.7	1984	86 01
16	4.10	0.150	0.40	0.92	17	889	29	9 865	934.4	1986	86 06

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
TABER NORTH 011-16W4 (CONTINUED)								
TABER A	1 950.0	0.12		235.0		235.0	204.4	30.6
TABER B	556.0	0.10		55.6		55.6	44.1	11.5
TABER C	2 490.0	0.10		249.0		249.0	207.4	41.6
TABER D	2 000.0	0.15		300.0		300.0	233.4	66.6
TABER E	344.0	0.10		34.4		34.4	29.0	5.4
TABER I	115.0	0.15		17.3		17.3	12.5	4.8
TABER J	229.0	<0.01		0.2		0.2	0.2	
TABER K	1 242.0	0.20		248.0		248.0	189.3	58.7
TABER L	98.8	<0.01		0.7		0.7	0.7	
TABER M	158.0	<0.01		0.1		0.1	0.1	
TABER O	857.0	0.15		129.0		129.0	77.9	51.1
TABER S	46.6	<0.02		0.8		0.8	0.8	
TABER T	49.3	0.10		4.9		4.9	0.2	4.7
SAWTOOTH A	48.4	0.10		0.5		0.5	0.5	
TABER SOUTH 007-16W4								
MANNVILLE A TOTAL	9 491.0			475.0	934.0	1 409.0	1 055.5	353.5
PRIMARY AREA	149.0	0.05		7.5		7.5		
WATER FLOOD AREA	9 342.0	0.05	0.10	467.0	934.0	1 401.0		
MANNVILLE B	7 196.0	0.07	0.23	504.0	1 655.0	2 159.0	2 022.7	136.3
WATER FLOOD								
MANNVILLE C	281.0	<0.01		0.6		0.6	0.6	
MANNVILLE D	389.0	0.05		19.5		19.5	11.7	7.8
MANNVILLE E	247.0	<0.02		3.0		3.0	3.0	
MANNVILLE F	840.0	0.04		33.6		33.6	23.6	10.0
MANNVILLE G	338.0	0.04		13.5		13.5	6.9	6.6
MANNVILLE H	66.0	<0.01		0.5		0.5	0.5	
MANNVILLE I	85.9	0.10		8.6		8.6	5.8	2.8
MANNVILLE J	106.0	<0.01		0.1		0.1	0.1	
MANNVILLE K	195.0	0.05		9.8		9.8	1.5	8.3
MANNVILLE L	111.0	0.05		5.5		5.5	1.0	4.5
GLAUCONITIC A	237.0	0.05		11.9		11.9	2.5	9.4
GLAUCONITIC B	51.6	0.05		2.6		2.6	1.2	1.4
GLAUCONITIC C	766.0	0.05		38.3		38.3	12.1	26.2
GLAUCONITIC D	143.0	0.05		7.2		7.2		7.2
TURNER VALLEY A	505.0	0.05		25.3		25.3	5.5	19.8
TABER SOUTH-EAST 008-15W4								
MANNVILLE A	1 460.0	0.15		219.0		219.0	186.1	32.9
MANNVILLE C	336.0	0.07		23.5		23.5	16.9	6.6
MANNVILLE D	680.0	0.08		54.4		54.4	46.0	8.4
MANNVILLE E	184.0	0.10		18.4		18.4	13.9	4.5
MANNVILLE F	34.4	0.10		3.4		3.4	0.6	2.8
TURIN 010-18W4								
FISH SCALE B	99.0	0.03		3.0		3.0	1.4	1.6
UPPER MANNVILLE C	2 060.0	0.25		515.0		515.0	315.9	199.1
UPPER MANNVILLE J	1 492.0	0.10		149.0		149.0	55.7	93.3
LOWER MANNVILLE E	659.0	0.25		165.0		165.0	92.6	72.4
LOWER MANNVILLE L	1 670.0	0.15		250.0		250.0	211.2	38.8
LOWER MANNVILLE M	218.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE N	82.2	<0.01		0.6		0.6	0.6	
LOWER MANNVILLE P	41.8	<0.01		0.2		0.2	0.2	
LOWER MANNVILLE T	109.0	0.10		10.9		10.9	7.6	3.3
LOWER MANNVILLE X	113.0	0.15		17.0		17.0	8.2	8.8
LOWER MANNVILLE BB	96.8	0.05		4.8		4.8	0.8	4.0
LOWER MANNVILLE NN	276.0	0.10		27.6		27.6	5.5	22.1
LOWER MANNVILLE TT	470.0	0.15		70.0		70.0	48.1	21.9
SAWTOOTH A	21.4	0.15		3.2		3.2	1.1	2.1
VERGER 022-15W4								
MANNVILLE A	78.2	<0.01		0.3		0.3	0.3	
MANNVILLE D	2 180.0	<0.01		4.7		4.7	4.7	
MANNVILLE F	149.0	0.10		14.9		14.9	5.1	9.8
UPPER MANNVILLE C	4 130.0	0.01		41.3		41.3	19.5	21.8
VERMILION 050-05W4								
SPARKY A	7 710.0	<0.09		637.0		637.0	563.2	73.8

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
713	2.77	0.210	0.50	0.94	32	887	29	11 030	979.3	1966	70 08 - GPP
184	2.59	0.200	0.38	0.94	16	887	31	11 290	970.8	1967	84 12 - GPP
267	7.62	0.200	0.35	0.94	22	940	37	11 110	991.5	1974	86 12 - GPP
365	5.27	0.170	0.35	0.94	21	940	32	11 100	997.0	1976	83 12 - GPP
48	6.90	0.160	0.31	0.94	27	940	32	10 810	988.3	1977	80 04 - GPP
32	5.00	0.150	0.49	0.94	25	940	32	10 704	967.3	1981	85 12 - GPP
64	3.20	0.170	0.30	0.94	20	884	33	10 582	977.4	1982	83 06 - SUSP 84 10
368	3.15	0.190	0.40	0.94	15	896	54	10 407	965.9	1983	88 05
32	2.50	0.180	0.27	0.94	25	924	35	10 613	981.9	1983	83 11 - ABAND 84 04
64	3.60	0.140	0.48	0.94	15	893	54	10 758	981.2	1983	84 05 - ABAND 88 11
282	4.33	0.150	0.48	0.90	38	934	32	10 045	971.0	1983	88 03
16	2.50	0.200	0.38	0.94	16	887	33	8 885	978.3	1981	88 12 - SUSP 86 03
16	2.20	0.200	0.27	0.96	14	945	33	9 183	987.4	1987	88 06
16	2.20	0.230	0.35	0.92	35	895	29	10 560	992.6	1980	89 12 - SUSP 87 07
1 139					7	946	35	10 000	990.7	1963	88 12
16	8.00	0.200	0.40	0.97							
1 123	6.97	0.205	0.40	0.97							- GPP
518	6.34	0.259	0.10	0.94	16	940	41	9 890	984.8	1963	88 12
65	3.05	0.200	0.25	0.95	16	940	38	9 960	976.6	1965	67 11 - ABAND 67 06
92	2.59	0.220	0.21	0.94	46	898	31	10 032	979.5	1965	86 09
32	6.25	0.180	0.30	0.98	21	930	32	10 260	994.3	1978	88 12 - SUSP 86 01
96	7.58	0.192	0.38	0.97	6	939	32	9 364	1 004.1	1979	87 12
32	7.70	0.200	0.30	0.98	21	947	32	9 562	986.6	1983	89 12
32	3.00	0.156	0.55	0.98	6	920	32	9 775	978.4	1984	84 06 - ABAND 87 01
32	2.80	0.170	0.40	0.94	27	939	28	10 805	1 001.8	1984	87 12
16	5.50	0.180	0.32	0.98	15	930	34	9 725	997.3	1984	88 12 - SUSP 86 01
32	7.09	0.175	0.46	0.91	46	950	31	9 725	994.6	1987	89 05
16	6.40	0.160	0.29	0.95	15	945	36		995.2	1988	89 02
16	16.80	0.160	0.42	0.95	17	899	29	9 516	975.3	1983	83 12
16	2.70	0.160	0.23	0.97	15	935	33	9 937	983.4	1984	85 05
64	6.68	0.230	0.18	0.95	17	914	29	9 775	988.7	1986	87 04
64	2.70	0.150	0.38	0.89	46	886	31		975.4	1988	89 05
64	7.50	0.160	0.30	0.94	24	897	31	10 279	1 013.3	1986	86 08
380	3.41	0.200	0.40	0.94	16	915	29	10 070	972.6	1963	85 12 - GPP
64	5.96	0.170	0.46	0.96	16	934	36	9 780	949.2	1973	89 12
351	1.80	0.200	0.44	0.96	10	915	32	10 140	963.5	1974	85 07
64	2.98	0.200	0.50	0.96	10	915	32	9 623	969.3	1977	87 12
32	2.00	0.160	0.65	0.96	10	917	32	9 847	986.3	1987	88 07 - SUSP 88 11
65	1.22	0.220	0.40	0.95	20	881	27	4 870	684.6	1975	76 02
280	4.62	0.240	0.21	0.84	72	881	32	11 220	1 000.7	1974	88 11
290	6.56	0.160	0.43	0.86	68	831	31	10 806	982.7	1982	89 06
174	3.33	0.180	0.29	0.89	65	904	32	12 100	1 099.4	1974	88 10
429	3.70	0.180	0.35	0.90	21	940	38	11 176	993.8	1974	85 09 - GPP
65	3.96	0.180	0.50	0.94	25	940	32	10 480	1 025.7	1974	82 12 - SUSP 74 11
32	2.44	0.180	0.35	0.89	53	921	32	11 135	1 008.6	1975	78 07 - SUSP 78 02
32	2.50	0.100	0.45	0.95	21	930	33	11 290	1 037.0	1977	83 12 - SUSP 79 09
32	3.30	0.180	0.35	0.88	55	917	33	10 780	1 066.1	1979	87 12 - GPP
155	0.75	0.150	0.28	0.90	38	889	32	11 082	1 007.3	1981	88 12 - GPP
16	3.70	0.210	0.18	0.95	20	956	33	10 924	1 000.2	1981	89 12 - GPP
64	2.75	0.240	0.23	0.85	86	17	35	11 107	1 092.3	1984	85 05 - SUSP 89 06
161	2.77	0.180	0.35	0.90	21	940	38	11 176	993.8	1974	85 09 - GPP
16	1.50	0.160	0.36	0.87	53	875	28		1 095.3	1988	88 12 - GPP
16	4.00	0.200	0.35	0.94	19	960	40	10 378	1 062.9	1974	83 12 - ABAND 83 10
1 502	2.56	0.180	0.65	0.90	41	915	46	10 400	1 062.8	1971	82 12 - SUSP 80 06
64	1.50	0.260	0.33	0.89	45	892	38	9 961	1 170.3	1980	85 04
1 079	3.66	0.198	0.40	0.88	57	881	36	10 130	983.6	1971	74 12
1 325	2.71	0.280	0.20	0.96	11	965	27	3 585	560.8	1939	86 12 - GPP

TABLE 2-4

FIELD POOL	1	3		4	5	6	7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
VIKING-KINSELLA								
047-11W4								
UPPER MANNVILLE B	289.0	<0.01		0.3		0.3	0.3	
UPPER MANNVILLE C	77.0	0.05		3.9		3.9	3.8	0.1
UPPER MANNVILLE K	100.0	<0.01		0.1		0.1	0.1	
UPPER MANNVILLE R	764.0	<0.01		1.3		1.3	1.3	
UPPER MANNVILLE X	39.8	<0.01		0.1		0.1		0.1
UPPER MANNVILLE CC	75.2	<0.02		1.2		1.2	1.2	
UPPER MANNVILLE QQ	146.0	<0.01		0.4		0.4	0.4	
UPPER MANNVILLE CCC	469.0	0.05		23.5		23.5	3.5	20.0
COLONY YY	127.0	<0.01		0.1		0.1	0.1	
COLONY ZZ	82.6	0.05		4.1		4.1	0.5	3.6
SPARKY E	99.5	0.05		5.0		5.0	0.5	4.5
SPARKY F TOTAL	5 340.0			267.0	1 158.0	1 425.0	199.6	1 225.4
PRIMARY AREA	710.0	0.05		35.5		35.5		
WATER FLOOD AREA	4 630.0	0.05	0.25	232.0	1 158.0	1 390.0		
SPARKY G	241.0	<0.01		0.6		0.6	0.6	
SPARKY I	104.0	0.05		5.2		5.2		5.2
SPARKY J	308.0	0.05		15.4		15.4	0.6	14.8
WAINWRIGHT B TOTAL	20 910.0			1 057.0	4 072.0	5 129.0	4 304.4	824.6
PRIMARY AREA	550.0	0.07		38.5		38.5		
WATER FLOOD AREA	20 360.0	0.05	0.20	1 018.0	4 072.0	5 090.0		
WAINWRIGHT D	1 020.0	0.05		51.0		51.0	3.4	47.6
WAINWRIGHT E	78.7	0.01		0.8		0.8	0.8	
WAINWRIGHT H	136.0	<0.01		0.7		0.7	0.7	
WAINWRIGHT I	76.5	<0.01		0.2		0.2	0.2	
LOWER MANNVILLE K	92.5	<0.01		0.2		0.2	0.2	
D-2 H	31.5	0.10		3.2		3.2	2.5	0.7
D-2 J	138.0	0.05		6.9		6.9	4.0	2.9
WAINWRIGHT 045-06W4								
VIKING, COLONY G.R.V.W & EE	137.0	0.07		9.6		9.6	5.6	4.0
COLONY P	63.0	0.07		4.4		4.4	3.3	1.1
COLONY CC	686.0	0.10		58.6		58.6	45.0	22.6
COLONY MM	37.7	<0.01		0.1		0.1	0.1	
COLONY NN	21.2	<0.01		0.1		0.1	0.1	
SPARKY B	439.0	0.05		22.0		22.0	13.7	8.3
SPARKY C	327.0	0.03		9.8		9.8	1.3	8.5
SPARKY F	91.2	0.05		4.6		4.6	1.9	2.7
SPARKY G	99.0	0.05		5.0		5.0	3.8	1.2
SPARKY H	50.2	<0.01		0.1		0.1		0.1
SPARKY J TOTAL	416.0			25.0	43.4	68.4	43.6	24.8
PRIMARY AREA	106.0	0.06		6.4		6.4		
WATER FLOOD AREA	310.0	0.06	0.14	18.6	43.4	62.0		
SPARKY K	31.2	<0.03		0.9		0.9	0.9	
SPARKY L	31.0	<0.02		0.6		0.6	0.6	
SPARKY N	46.2	<0.01		0.1		0.1	0.1	
SPARKY O	51.2	<0.01		0.1		0.1	0.1	
SPARKY P	44.2	<0.01		0.3		0.3	0.3	
SPARKY R	34.8	<0.01		0.1		0.1	0.1	
SPARKY U	24.7	<0.01		0.1		0.1	0.1	
SPARKY W	39.5	<0.01		0.1		0.1		0.1
SPARKY X	40.0	<0.01		0.2		0.2	0.2	
SPARKY Y	26.1	0.05		1.3		1.3	0.2	1.1
SPARKY Z	15.4	0.15		2.3		2.3	1.5	0.8
WAINWRIGHT B TOTAL	4 340.0			217.0	480.0	697.0	128.4	568.6
PRIMARY AREA	1 340.0	0.05		67.0		67.0		
WATER FLOOD AREA	3 000.0	0.05	0.16	150.0	480.0	630.0		
WAINWRIGHT C TOTAL	2 100.0			126.0	55.5	182.0	97.7	84.3
PRIMARY AREA	1 730.0	0.06		104.0		104.0		
WATER FLOOD AREA	370.0	0.06	0.15	22.2	55.5	77.7		
WAINWRIGHT & SPARKY A TOTAL	45 108.0			2 707.0	11 130.0	13 840.0	10 846.9	2 993.1
PRIMARY AREA	4 446.0	0.06		267.0		267.0		
WATER FLOOD AREA	40 662.0	<0.07	0.27	2 440.0	11 130.0	13 570.0		
GENERAL PETROLEUM B	658.0	<0.01		0.4		0.4	0.4	
GENERAL PETROLEUM C	24.0	0.10		2.4		2.4	0.4	2.0
REX A	320.0	0.10		32.0		32.0	0.7	31.3
REX B	5.5	0.05		0.3		0.3	0.1	0.2
LLOYDMINSTER A	107.0	0.10		10.8		10.8	9.8	1.0
LLOYDMINSTER B	510.0	<0.01		4.0		4.0	4.0	
LLOYDMINSTER C	88.9	<0.01		0.1		0.1		0.1

HEAVY CRUDE OIL POOLS

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
65	2.13	0.290	0.23	0.94	21	927	34	4 830	717.5	1975	82 12 - SUSP 75 06
16	3.35	0.250	0.40	0.96	18	946	28	4 680	688.2	1975	82 12 - GPP
65	0.91	0.290	0.39	0.96	19	952	29	5 360	765.7	1975	77 03 - ABAND 87 06
64	7.70	0.300	0.45	0.94	21	927	31	6 510	752.2	1972	77 12 - SUSP 79 12
16	1.50	0.270	0.36	0.96	18	970	29	5 680	744.2	1978	79 04 - ABAND 86 10
16	2.40	0.300	0.32	0.96	10	939	33	5 210	733.0	1979	80 07 - ABAND 87 10
16	5.40	0.280	0.37	0.96	17	949	30	5 401	746.0	1980	88 12 - SUSP 86 03
192	1.87	0.233	0.34	0.85	64	864	33	4 927	765.3	1982	84 01 - GPP
64	1.30	0.320	0.50	0.95	21	946	28	4 817	652.7	1981	88 12 - SUSP 86 04
16	2.40	0.320	0.30	0.96	17	964	25	4 627	620.7	1976	85 08 - SUSP 88 08
16	2.90	0.330	0.33	0.97	10	950	20	5 030	658.6	1985	87 05
1	183				18	928	28	5 618	721.3	1987	89 06
238	2.29	0.230	0.29	0.96							
945	3.18	0.230	0.29	0.96							- GPP
32	3.49	0.300	0.25	0.96	17	934	28	5 008	656.3	1986	87 11 - ABAND 88 03
32	2.00	0.280	0.38	0.94	21	910	30		772.0	1988	89 05
16	13.80	0.200	0.28	0.97	13	931	24		730.5	1988	89 05
3	134				15	927	27	4 840	653.2	1973	89 12
88	3.24	0.300	0.33	0.96							- GPP
3	046	3.46	0.300	0.33	0.96						- SUSP 89 09
156	3.46	0.290	0.32	0.96	17	965	28	5 240	687.0	1976	89 12 - SUSP 86 10
16	2.44	0.280	0.25	0.96	17	965	27	5 050	672.7	1976	83 12 - SUSP 80 12
32	2.21	0.300	0.34	0.97	15	958	27	4 980	688.1	1978	82 12 - ABAND 87 10
16	2.20	0.310	0.27	0.96	10	956	34	4 970	740.9	1978	83 12 - SUSP 83 12
16	2.70	0.300	0.17	0.86	70	996	31	5 610	843.1	1977	86 10
16	2.48	0.126	0.35	0.97	20	970	28	4 868	761.8	1986	88 03
16	6.70	0.170	0.22	0.97	20	970	28	4 696	625.5	1987	
32	1.95	0.330	0.30	0.95	20	946	30	5 507	605.3	1975	83 04
16	1.83	0.310	0.27	0.95	15	946	27	3 990	626.7	1972	85 12 - GPP
96	3.51	0.300	0.30	0.97	16	955	31	4 340	590.1	1973	88 12 - GPP
16	1.70	0.280	0.50	0.99	12	947	25	4 444	644.1	1984	88 12 - SUSP 86 07
16	1.00	0.250	0.43	0.93	29	980	28	3 900	591.9	1982	85 09 - ABAND 86 01
48	7.42	0.250	0.47	0.93	14	959	27	4 340	645.0	1967	88 12 - GPP
65	2.13	0.330	0.25	0.96	16	959	31	4 343	657.0	1976	77 12
32	2.28	0.240	0.40	0.93	15	921	27	3 850	639.7	1978	79 11
32	2.00	0.260	0.38	0.96	16	945	25	4 510	635.5	1978	81 12 - GPP
16	3.00	0.220	0.50	0.95	23	950	28	4 519	627.6	1980	80 09 - SUSP 83 07
156					14	960	30	4 547	657.9	1981	87 12 - SUSP 87 09
56	1.20	0.270	0.37	0.93							- GPP
100	1.96	0.270	0.37	0.93							- SUSP 87 07
8	2.50	0.250	0.33	0.93	32	904	30	4 340	615.8	1981	89 12 - SUSP 87 07
8	2.30	0.270	0.35	0.96	16	921	33	4 816	614.4	1982	89 12 - SUSP 87 07
16	2.70	0.230	0.50	0.93	14	960	25	4 324	648.2	1983	88 12 - SUSP 85 07
16	2.50	0.250	0.45	0.93	14	960	23	3 981	626.3	1984	88 12 - SUSP 85 07
16	2.00	0.270	0.45	0.93	14	960	27	4 417	627.5	1984	84 09 - ABAND 85 08
16	1.70	0.250	0.45	0.93	20	960	25	3 252	630.3	1984	84 11 - SUSP 85 07
16	1.20	0.260	0.48	0.95	12	960	23	3 904	652.0	1984	89 12 - SUSP 87 06
16	1.60	0.280	0.42	0.95	21	980	28	4 221	634.4	1985	85 09 - ABAND 85 12
16	1.70	0.280	0.44	0.94	12	939	26	4 110	614.1	1985	88 12 - SUSP 86 06
16	1.30	0.270	0.50	0.93	12	924	26	4 369	680.8	1985	86 04
16	0.71	0.260	0.44	0.93	12	930	25	4 200	634.9	1985	86 04
904					14	904	27	4 527	662.8	1975	88 12
240	3.78	0.270	0.43	0.96							
664	3.17	0.270	0.45	0.96							
363					15	921	27	4 770	690.2	1926	85 07
305	3.55	0.260	0.34	0.93							
58	4.00	0.260	0.34	0.93							
6	837				15	921	27	4 830	639.5	1925	89 11
943	2.37	0.300	0.32	0.93							- GPP
5	894	0.313	0.27	0.93							- ABAND 76 02
65	5.18	0.310	0.32	0.93	24	904	23	4 450	638.6	1975	76 07
8	2.70	0.240	0.50	0.93	10	906	30	4 565	662.2	1985	87 07
64	3.50	0.240	0.38	0.96	16	893	26		647.0	1986	88 10
16	0.70	0.220	0.75	0.90	43	924	32		695.9	1985	89 02
8	7.92	0.300	0.40	0.93	14	921	28	4 310	654.4	1968	69 02 - GPP
64	3.39	0.330	0.25	0.95	32	959	28	4 480	679.7	1974	83 12 - ABAND 83 03
16	3.00	0.300	0.35	0.95	21	952	28	4 517	663.8	1981	82 05 - ABAND 81 12

TABLE 2-4

FIELD POOL	1	2 3		4 5 6			7	8
	INITIAL VOLUME IN PLACE	RECOVERY		INITIAL ESTABLISHED RESERVES			CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES
		PRIMARY	ENHANCED	PRIMARY	ENHANCED	TOTAL		
	10 ³ m ³	frac	frac	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³	10 ³ m ³
WAINWRIGHT 045-06W4 (CONTINUED)								
DETRITAL B	68.6	0.10		6.9		6.9	0.1	6.8
NISKU A	4 573.0	0.08		366.0		366.0	200.9	165.1
NISKU E	29.8	0.10		3.0		3.0	2.2	0.8
NISKU F	19.4	<0.01		0.1		0.1	0.1	
CAMROSE A	1 900.0	0.10		190.0		190.0	89.0	101.0
WARWICK 052-14W4								
UPPER MANNVILLE J	726.0	<0.04		23.6		23.6	23.6	
UPPER MANNVILLE V	38.8	<0.01		0.1		0.1		0.1
WILDMERE 048-05W4								
UPPER MANNVILLE A	69.8	<0.03		1.8		1.8	1.8	
COLONY I	338.0	0.05		16.9		16.9	4.9	12.0
COLONY U	151.0	<0.01		0.1		0.1	0.1	
WASECA A	115.0	<0.01		0.1		0.1		0.1
SPARKY B	4 080.0	0.06		245.0		245.0	185.2	59.8
SPARKY G	164.0	0.05		8.2		8.2	4.6	3.6
SPARKY H	200.0	0.05		10.0		10.0	5.6	4.4
SPARKY I	40.2	<0.01		0.1		0.1	0.1	
SPARKY M	65.6	<0.01		0.1		0.1	0.1	
SPARKY N	10 800.0	0.05		540.0		540.0	87.4	452.6
SPARKY O	733.0	0.05		36.7		36.7	5.3	31.4
SPARKY P	37.8	0.05		1.9		1.9		1.9
SPARKY Q	115.0	<0.01		0.1		0.1	0.1	
SPARKY S	190.0	0.05		9.5		9.5		9.5
SPARKY R & GENERAL PETROLEUM C	119.0	<0.01		0.1		0.1	0.1	
SPARKY J & GENERAL PETROLEUM B	611.0	<0.01		1.6		1.6	1.6	
GENERAL PETROLEUM A	400.0	0.05		20.0		20.0	12.8	7.2
GENERAL PETROLEUM D	101.0	<0.01		0.1		0.1		0.1
LLOYDMINSTER B	217.0	<0.01		1.4		1.4	1.4	
LLOYDMINSTER C	2 050.0	0.03		61.5		61.5	26.8	34.7
LLOYDMINSTER D	401.0	0.02		8.0		8.0	3.4	4.6
LLOYDMINSTER E	140.0	<0.02		1.6		1.6	1.6	
LLOYDMINSTER F	190.0	<0.01		0.3		0.3	0.3	
LLOYDMINSTER G	143.0	<0.01		0.3		0.3	0.3	
LLOYDMINSTER H	133.0	<0.01		0.2		0.2	0.2	
LLOYDMINSTER I	97.0	<0.02		1.4		1.4	1.4	
LLOYDMINSTER K	184.0	<0.01		0.2		0.2	0.2	
LLOYDMINSTER L	169.0	0.05		8.5		8.5	3.6	4.9
LLOYDMINSTER M	177.0	0.05		8.9		8.9	1.3	7.6
LLOYDMINSTER N	216.0	<0.01		0.8		0.8	0.8	
LLOYDMINSTER P	2 522.0	0.03		75.6		75.6	13.2	62.4
LLOYDMINSTER Q	242.0	0.05		12.1		12.1	2.1	10.0
LLOYDMINSTER R	100.0	<0.01		0.4		0.4	0.4	
LLOYDMINSTER V	1 600.0	0.01		16.0		16.0	4.6	11.4
LLOYDMINSTER W	295.0	0.05		14.8		14.8	0.1	14.7
LLOYDMINSTER Y	236.0	0.05		11.8		11.8		11.8
LLOYDMINSTER A & SPARKY E TOTAL	43 400.0			2 170.0	960.0	3 130.0	2 077.3	1 052.7
PRIMARY AREA	31 400.0	0.05		1 570.0		1 570.0		
WATER FLOOD AREA	12 000.0	0.05	0.08	600.0	960.0	1 560.0		
WRENTHAM 006-16W4								
GLAUCONITIC A	67.4	0.07		4.7		4.7	4.2	0.5
GLAUCONITIC B	229.0	0.10		22.9		22.9	9.7	13.2
LOWER MANNVILLE A	333.0	<0.01		0.1		0.1	0.1	
LOWER MANNVILLE B	1 180.0	0.08	0.12	94.4	142.0	236.0	222.9	13.1
WATER FLOOD								
LOWER MANNVILLE C	2 053.0			266.0	85.3	351.0	261.9	89.1
TOTAL								
PRIMARY AREA	1 200.0	0.15		180.0		180.0		
WATER FLOOD AREA	853.0	0.10	0.10	86.0	85.3	171.0		
LOWER MANNVILLE E	554.0	0.07		38.8		38.8	31.6	7.2
LOWER MANNVILLE F	855.0	0.05		42.8		42.8	21.8	21.0
LOWER MANNVILLE G	384.0	0.07		26.9		26.9	19.6	7.3
LOWER MANNVILLE H	114.0	0.10		11.4		11.4	9.7	1.7

9	10	11	12	13	14	15	16	17	18	19	20
AREA	AVERAGE PAY THICKNESS	POROSITY	WATER SATN	SHRINKAGE	INITIAL SOLUTION GOR	DENSITY	TEMP	INITIAL PRESSURE	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED AND REMARKS
ha	m	frac	frac	frac	m ³ /m ³	kg/m ³	°C	kPa	m		
16	2.50	0.330	0.35	0.80	90	855	29	2 019	688.7	1984	87 12
606	6.80	0.170	0.32	0.96	14	957	24	3 493	641.5	1982	88 12
16	4.90	0.090	0.56	0.96	15	953	25	4 337	664.8	1985	87 12
16	3.00	0.100	0.58	0.96	15	953	24	4 305	656.9	1985	86 06 - SUSP 87 07
480	4.21	0.170	0.41	0.96	31	955	29	4 350	684.3	1984	89 02
128	3.42	0.275	0.33	0.90	22	910	29	5 670	652.6	1971	88 12 - SUSP 84 08
16	1.52	0.270	0.40	0.97	11	927	29	5 210	584.9	1977	79 12 - ABAND 78 10
16	1.83	0.320	0.24	0.97	15	952	21	4 140	595.0	1975	88 12 - SUSP 86 09
48	2.95	0.330	0.27	0.99	8	977	22	3 940	574.3	1980	83 06 - SUSP 88 09
16	4.30	0.320	0.30	0.98	15	970	22	3 500	560.6	1974	88 12 - SUSP 86 03
16	3.40	0.280	0.23	0.98	7	987	28	4 187	601.1	1985	87 08 - ABAND 88 07
597	2.59	0.320	0.15	0.97	15	959	32	6 900	607.7	1965	86 12 - GPP
64	1.75	0.280	0.46	0.97	14	939	26	5 874	600.0	1979	81 02 - SUSP 88 07
73	1.60	0.290	0.39	0.97	10	953	25	3 216	549.7	1979	85 12 - GPP
16	1.20	0.300	0.28	0.97	10	958	25	3 210	548.7	1980	88 12 - SUSP 81 07
16	2.20	0.320	0.40	0.97	12	984	25	5 874	586.9	1981	82 05 - ABAND 85 07
913	5.39	0.310	0.27	0.97	14	966	23	4 600	565.3	1982	86 03
112	3.06	0.300	0.28	0.99	10	973	28	4 840	657.8	1983	84 08
16	1.80	0.260	0.48	0.97	13	981	21	5 523	561.4	1977	84 08
16	3.20	0.310	0.25	0.97	25	980	25	4 512	633.4	1984	88 12 - SUSP 84 11
16	5.70	0.300	0.30	0.99	10	981	24	5 520	602.8	1984	85 12 - SUSP 88 06
32	2.00	0.300	0.36	0.97	11	982	29	4 400	622.3	1981	84 12 - ABAND 86 12
163	1.87	0.300	0.31	0.97	13	950	25	4 376	590.2	1979	88 12 - SUSP 86 06
64	2.98	0.300	0.28	0.97	11	935	29	4 400	625.1	1977	85 12 - GPP
16	2.90	0.320	0.30	0.97	12	987	24	4 429	639.3	1986	86 11 - ABAND 88 12
16	5.48	0.310	0.19	0.99	9	965	26	3 790	591.6	1973	89 12 - SUSP 86 11
208	4.52	0.290	0.24	0.99	9	993	27	4 740	646.5	1978	84 12 - GPP
32	4.92	0.310	0.17	0.99	9	997	25	4 570	686.1	1978	84 12 - GPP
16	4.20	0.280	0.25	0.99	12	997	24	4 760	648.9	1980	89 12 - SUSP 86 10
16	5.00	0.300	0.20	0.99	9	990	25	4 440	672.5	1981	82 05 - ABAND 87 08
16	4.00	0.300	0.25	0.99	9	984	25	4 460	631.3	1981	82 07 - ABAND 85 06
16	4.00	0.270	0.22	0.99	9	996	29	4 495	684.0	1981	82 10 - ABAND 86 05
16	3.50	0.250	0.30	0.99	9	988	23	4 503	650.3	1982	88 12 - SUSP 86 09
16	5.70	0.280	0.25	0.96	38	952	24	4 616	701.7	1983	83 11 - ABAND 88 11
16	5.00	0.290	0.25	0.97	16	983	26	5 075	652.6	1983	84 02
16	5.50	0.290	0.30	0.99	27	979	25	4 760	643.5	1982	83 04 - SUSP 88 09
16	5.80	0.300	0.20	0.97	16	932	26	4 755	644.8	1982	89 12 - SUSP 87 07
176	6.35	0.300	0.24	0.99	16	980	26	4 860	653.4	1984	87 07
16	6.50	0.300	0.20	0.97	16	986	26	4 560	646.6	1983	84 11 - SUSP 88 09
16	4.00	0.270	0.40	0.97	16	986	26	4 701	651.0	1984	88 12 - SUSP 86 09
112	6.25	0.310	0.24	0.97	16	969	26	4 960	669.5	1985	87 12
16	7.50	0.310	0.20	0.99	12	990	30	3 750	657.8	1986	86 12
16	6.10	0.300	0.16	0.96	14	956	24	4 544	653.3	1987	88 10
2 993					10	946	26	4 765	618.6	1966	88 01 - GPP
2 369	5.55	0.320	0.23	0.97							
624	8.05	0.320	0.23	0.97							
16	3.07	0.200	0.27	0.94	22	934	37	5 730	994.0	1976	85 12
48	4.16	0.200	0.39	0.94	22	930	34	9 603	979.2	1982	84 09
32	8.70	0.190	0.33	0.94	10	934	36	9 629	977.5	1967	82 12 - SUSP 83 10
78	10.47	0.220	0.33	0.98	10	934	31	9 630	945.5	1967	86 04 - GPP
386					10	934	31	9 550	941.2	1967	89 12 - GPP
225	3.95	0.200	0.31	0.98							86 12 - GPP - MRL
161	3.66	0.220	0.33	0.98							
96	5.07	0.170	0.31	0.97	10	937	30	9 050	952.6	1979	85 12
144	5.89	0.180	0.41	0.95	10	935	30	9 567	1 002.4	1979	86 01
80	4.85	0.200	0.49	0.97	10	935	30	9 463	970.4	1985	87 12
16	4.62	0.210	0.25	0.98	10	934	31	10 575	974.3	1978	86 04

HEAVY CRUDE OIL POOLS

[illegible]

3 RESERVES OF CRUDE BITUMEN AND SYNTHETIC CRUDE OIL

3.1 PROVINCIAL SUMMARY

The Board estimates the remaining established reserves of crude bitumen from the deposits under active development to be 482 million cubic metres for the surface-mineable schemes and 60.2 million cubic metres for the in situ schemes.

The changes for established crude bitumen reserves are shown below:

	1989	1988	Change
	10 ⁶ m ³		
Initial Established Reserves			
Surface-mineable	644.0	644.0	—
In situ	97.9	99.0	— 1.1
Total	741.9	743.0	— 1.1
Cumulative Production			
Surface-mineable	162.0	147.0	+15.0
In situ	37.7	29.5	+ 8.2
Total	199.7	176.5	+23.2
Remaining Established Reserves			
Surface-mineable	482.0	497.0	—15.0
In situ	60.2	69.5	— 9.3
Total	542.2	566.5	—24.3

Synthetic crude oil production resulting from the crude bitumen production at the two mining schemes amounted to some 11.9 million cubic metres with 8.6 million cubic metres from the Syncrude project and 3.3 million cubic metres from the Suncor project.

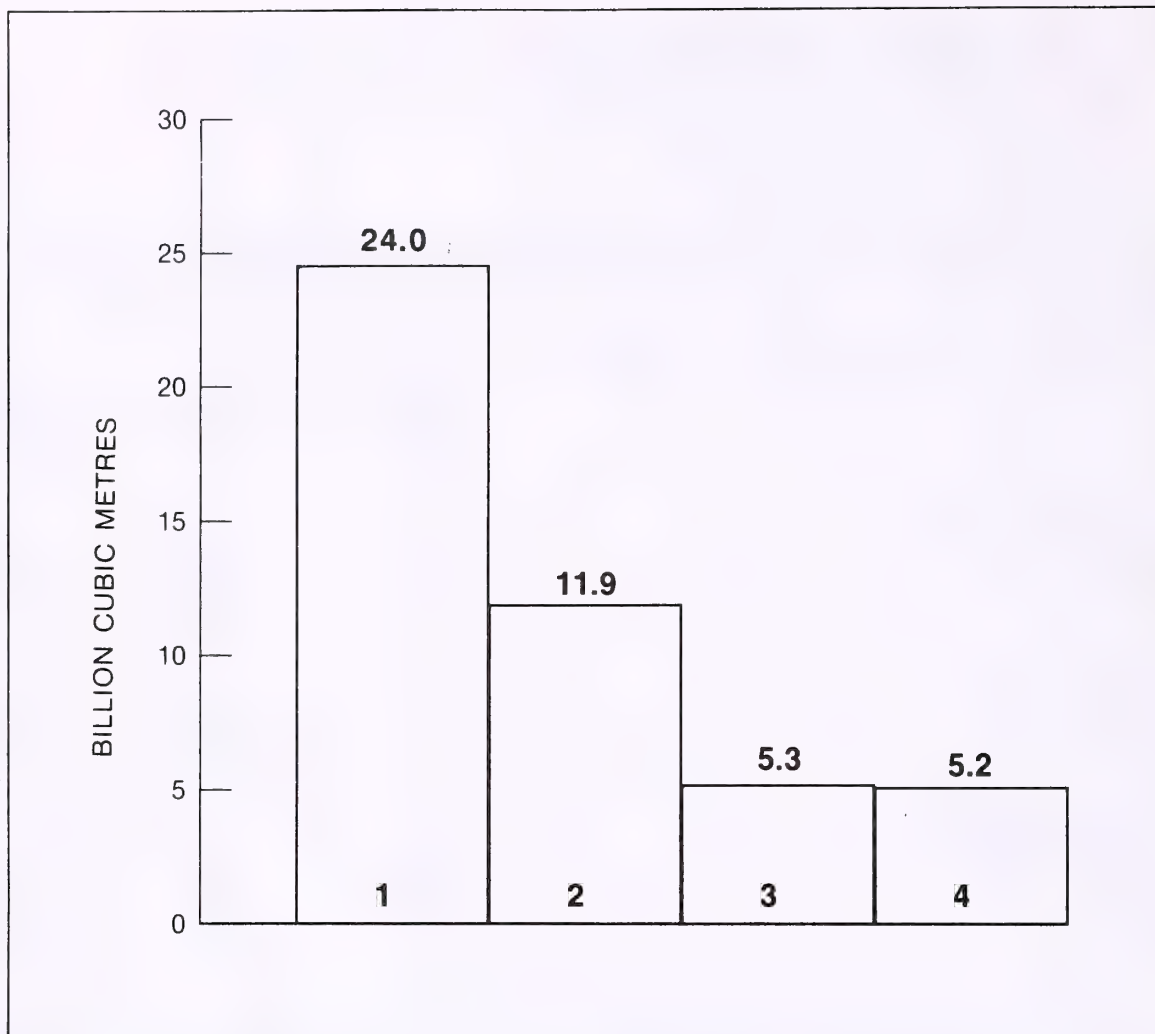
3.2 INITIAL IN-PLACE VOLUMES OF CRUDE BITUMEN

Alberta's massive crude bitumen reserves are contained in sand and carbonate sedimentary formations in the Athabasca, Cold Lake, and Peace River oil sands areas. Oil Sands Area Orders (OSA Orders) outline the general areal extent of crude bitumen occurrence and Oil Sands Deposit Orders (OSD Orders) outline the specific geological zones which have been declared as oil sands deposits.

Initial in-place volumes of crude bitumen in each deposit were estimated using drillhole data and geophysical logs available to the end of 1989. The crude bitumen within the Cretaceous sands was determined using a minimum saturation cut-off of 3 mass per cent crude bitumen, and a minimum saturated zone thickness of 1.5 metres.

For the surface-mineable area of the Athabasca deposit, in-place volumes were calculated by programmed computer techniques employing a geostatistical approach. No revision has been made to the in-place reserve volumes for 1989.

Excluding the surface-mineable area, the building-block approach remains the main method used to identify the in-place volumes within each deposit. Each deposit was divided into 2340-hectare (quarter-township) blocks and the initial in-place volume of crude bitumen in each block was determined using the average properties of the wells drilled in the block. Blocks not containing wells were assigned conservative values based on the lowest initial in-place volume of crude bitumen calculated for an adjacent block.



1. INITIAL VOLUME IN PLACE. Gross volume of crude bitumen established to exist within the surface-mineable area.
2. INITIAL MINEABLE VOLUME IN PLACE. Volume of crude bitumen calculated using minimum saturation and thickness criteria, and based upon the application of economic-strip-ratio criteria within the surface-mineable area.
3. INITIAL ESTABLISHED MINEABLE RESERVE. Volume of crude bitumen established within category 2, but excluding mining, extraction, and isolated ore losses, and areas unavailable because of placement of mine surface facilities and environmental buffer zones.
4. REMAINING ESTABLISHED MINEABLE RESERVE. Volume of crude bitumen established within category 3, less cumulative production.

FIGURE 3-1 CRUDE BITUMEN RESERVES CATEGORIES WITHIN THE SURFACE-MINEABLE AREA

The crude bitumen in-place volumes in the Lindbergh area of the Cold Lake deposits and the carbonate deposits were determined on the basis of isopach mapping rather than the building-block method. A minimum bitumen saturation of 30 per cent of pore volume and a porosity value of 5 per cent were used as cut-offs in the evaluation of the carbonate deposits.

The total initial volumes of crude bitumen in place for the designated deposits at 31 December 1989 were estimated at 266.4 billion cubic metres. The data are presented in Table 3-2.

3.3 SURFACE-MINEABLE CRUDE BITUMEN AND SYNTHETIC CRUDE OIL RESERVES

The initial mineable volume of in-place reserves of crude bitumen for the surface-mineable area was determined using the method outlined in Section 3.2, within that part of the Athabasca Wabiskaw-McMurray deposit where total overburden and top reject generally do not exceed 75 metres.

Potentially mineable areas were identified by economic strip ratio (ESR) criteria, a minimum saturation cut-off of 5 mass per cent bitumen, and a minimum saturated zone thickness of 1.5 metres. The ESR criteria are fully explained in Appendix III of ERCB Report 79-H.¹ The ESR criteria applied to varying bitumen saturations remains unchanged from the 1988 publication. No revision has been made to the initial reserve values contained in this section.

The initial mineable volume in place of crude bitumen within the potentially mineable areas was established to be 11.9 billion cubic metres. After allowing for surface facilities (plant sites, tailings ponds, discard sites), environmental protection corridors along major rivers, and isolated mineable areas, and assuming a combined mining/extraction recovery factor of 0.82, the resulting initial established mineable reserve of crude bitumen is estimated to be 5.3 billion cubic metres as shown in Figure 3-1. Technological improvements, better placement of surface facilities in future projects, and improved price/cost economics could increase this estimate.

Only a small portion of the initial established mineable reserves is being actively developed. The surface mining projects of Suncor and Syncrude are currently the only schemes under active development. During 1988, Syncrude received approval for the expansion of its Mildred Lake Project; however, a commitment to proceed with the expansion has not been made by the operator. The reserves under active development for Syncrude will be revised to reflect an increased project area if the expansion proceeds in the future. The estimated established mineable crude bitumen reserves for those projects as at 31 December 1989 are shown below:

Development	Project Area ^a	Initial Mineable Volume in Place ^b	Initial Established Mineable Reserve ^b	Cumulative Production	Remaining Established Mineable Reserve
	ha	10 ⁶ m ³			
Suncor	3 030	216	168	74	94
Syncrude	11 860	807	476	88	388
Total	14 890	1 023	644	162	482

^a The project areas correspond to the areas defined by the scheme approval and include mineable and other disturbed areas.

^b Definitions are given in Figure 3-1.

¹ Energy Resources Conservation Board, 1979. Alsands Fort McMurray Project ERCB Report 79-H. Calgary, Alberta.

The yield of synthetic crude oil through upgrading of crude bitumen is dependent upon the type of upgrading technology used, the use of products as fuel in the upgrading, the extent of gas liquids recovery, and the extent of residue upgrading. The yield factor for the current Suncor delayed coking operation is 0.78, while that for the current fluid coking/hydrocracking operation at Syncrude is 0.84. In 1989, the natural gas requirements to achieve these yields averaged 115 cubic metres per cubic metre of synthetic crude oil.

The initial established reserves of synthetic crude oil from the upgrading of the 5.3 billion cubic metres of crude bitumen in the surface-mineable area are estimated to be 4.8 billion cubic metres. This estimate is based on an average yield factor of 0.91 which has been revised from previous years to reflect both current operations and the use of high conversion, hydrogen addition upgrading technologies for the future development of the surface-mineable crude bitumen reserves.

3.4 IN SITU CRUDE BITUMEN RESERVES

The Board has assigned initial volumes in place and initial and remaining established reserves for commercial projects and active experimental schemes where all or a portion of the wells have been drilled and completed. In this reserves report, an aggregate reserve is shown for all active experimental schemes as well as an estimate of initial volumes in place and remaining established reserves for terminated schemes. An aggregate reserve is also shown for all projects within a given oil sands deposit and area for commercial schemes.

For commercial projects where the crude bitumen can only be recovered by the application of some form of thermal energy, only the areas actually developed for thermal recovery have been included in the established reserves notwithstanding the size of the approved project areas. The initial volume in place for developed areas in each project was based on the assigned drainage areas and had regard for the spacing of the individual wells or well clusters. Established reserves were then determined for the currently approved recovery mechanism. It should be noted that future experimentation and technological improvements may result in higher recovery of crude bitumen. For those projects with a primary recovery (pumping wells at natural temperature) component,² the in-place volume was based on the assumed full development of all project lands not currently developed for thermal recovery.

The initial established primary reserves for the Lindbergh area were based on a 2 per cent average primary recovery factor for the Cummings sands, and a 0.1 per cent average primary recovery factor for other Mannville sands. The initial established reserves for the Lindbergh thermal production areas were determined by summing the thermal reserves recognized for each project. This resulted in an average recovery factor of 15 per cent for the Mannville group of sands. For all other oil sands areas, the initial established reserves were determined by totalling the individual project reserves in each deposit. The individual project reserves estimates were based on historical and predicted production levels for each project.

For the drilled wells in the active experimental schemes, an initial established reserve figure of 17.0 million cubic metres is considered to be appropriate based on current well productivity, cumulative production, and the project production to the expiry date of each experimental scheme. Information from some 1220 wells was used in determining the experimental reserves figures.

The Board's estimate of the established in situ crude bitumen reserves is shown in Table 3-1.

² For the general Lindbergh area, the initial phase of development will entail cold fluid pumping to create reservoir voidage prior to the implementation of the approved thermal recovery technique.

TABLE 3-1 ESTABLISHED IN SITU CRUDE BITUMEN RESERVES
As at 31 December 1989

Development	1 Initial Volume in Place ^a 10 ⁶ m ³	2 Recovery Factor Percentage	3 Initial Established Reserves 10 ⁶ m ³	4 Cumulative Production ^b	5 Remaining Established Reserves
Peace River Commercial Project					
Thermal-Bluesky/Gething	16.0	40.0	6.4	1.5	4.9
Subtotal	16.0		6.4	1.5	4.9
Cold Lake Commercial Projects					
Cold Lake					
Thermal-Clearwater	328.6	18.0	59.1	16.9	42.2
Subtotal	328.6		59.1	16.9	42.2
Lindbergh					
Primary-Cummings 1 & 2	249.3	2.0	5.0		
-Other Mannville	267.1	0.1	0.3		
Thermal-Cummings 1 & 2	21.7	15.0	3.3		
-Other Mannville	4.3	17.0	0.7		
Subtotal	542.4		9.3	4.0	5.3
Other Lindbergh					
Primary-Cummings 1 & 2	246.9	2.0	4.9		
-Other Mannville	651.6	0.1	0.7		
Subtotal	898.5		5.6	1.5	4.1
Subtotal	1 769.5		74.0	22.4	51.6
Experimental Schemes					
Active	142.7	11.9	17.0	13.3	3.7
Terminated	19.7	2.5	0.5	0.5	
Subtotal	162.4		17.5	13.8	3.7
Total	1 947.9		97.9	37.7	60.2

^a Thermal reserves are assigned only for lands approved for thermal developments and having completed drilling development.

^b Cumulative production to 31 December 1989.



Reserves of Crude Bitumen and Basic Data

TABLE 3-2

OIL SANDS AREA OIL SANDS DEPOSIT OVERBURDEN DEPTH (m) OR ZONE	1	2	3	4		5	6	7 REMARKS
	INITIAL VOLUME IN PLACE	AREA	AVERAGE PAY THICKNESS	BITUMEN SATURATION		POROSITY	WATER SATN	
	10 ⁶ m ³	10 ³ ha	m	mass frac	pore vol frac	frac	frac	
ATHABASCA								
UPPER GRAND RAPIDS								
150 - 450+	4 140	334	9	0.062		0.30	0.45	
SUBTOTAL	4 140							
MIDDLE GRAND RAPIDS								
150 - 450+	1 410	182	5	0.077		0.30	0.32	
SUBTOTAL	1 410							
LOWER GRAND RAPIDS								
150 - 450+	1 220	173	6	0.051		0.30	0.55	
SUBTOTAL	1 220							
WABISKAW-MCMURRAY								
0 - 20	6 880	86	38	0.098		0.29	0.26	WITHIN MINEABLE AREA
20 - 40	7 780	103	37	0.096		0.29	0.27	WITHIN MINEABLE AREA
40 - 80	6 960	98	36	0.090		0.28	0.31	WITHIN MINEABLE AREA
80 - 120	2 330	26	46	0.097		0.27	0.27	WITHIN MINEABLE AREA
80 - 750+	117 800	4 329	19	0.069		0.28	0.38	BEYOND MINEABLE AREA
SUBTOTAL	141 750							
NISKU								
200 - 800+	10 330	499	8		0.63	0.21	0.37	
SUBTOTAL	10 330							
GROSMONT								
D	19 890	1 063	16		0.67	0.20	0.33	
C	15 390	1 189	10		0.75	0.16	0.25	
B	5 380	976	5		0.69	0.15	0.31	
A	9 840	939	10		0.60	0.14	0.40	
SUBTOTAL	50 500							
COLD LAKE								
UPPER GRAND RAPIDS								
300 - 600	7 400	816	6	0.065		0.30	0.42	
SUBTOTAL	7 400							
LOWER GRAND RAPIDS								
COLD LAKE AREA	11 650	740	12	0.069		0.31	0.40	
LINDBERGH AREA								
SPARKY	124	10	4	0.101	0.68	0.32	0.32	
LOWER GRAND RAPIDS 2	47	8	3	0.098	0.68	0.31	0.32	
LOWER GRAND RAPIDS 3	161	19	4	0.100	0.74	0.31	0.31	
LOWER GRAND RAPIDS 4	166	20	4	0.108	0.69	0.31	0.26	
LLOYDMINSTER	370	15	12	0.122	0.77	0.34	0.23	
SUBTOTAL	12 520							
CLEARWATER								
300 - 600	11 050	589	15	0.087	0.64	0.30	0.36	
SUBTOTAL	11 050							
WABISKAW-MCMURRAY								
COLD LAKE AREA	3 160	591	6	0.057		0.25	0.49	
LINDBERGH AREA								
CUMMINGS 1	308	30	6	0.133	0.79	0.31	0.21	
CUMMINGS 2	282	25	6	0.144	0.80	0.32	0.20	
MCMURRAY	238	21	5	0.104	0.75	0.30	0.25	
SUBTOTAL	3 990							
PEACE RIVER								
BLUESKY-GETHING								
300 - 700	11 490	1 000	11	0.077	0.69	0.25	0.31	
SUBTOTAL	11 490							
BELLOY								
675 - 700	282	26	8		0.64	0.27	0.36	
SUBTOTAL	282							

TABLE 3-2

OIL SANDS AREA OIL SANDS DEPOSIT OVERBURDEN DEPTH (m) OR ZONE	1	2	3	4		5	6	7
	INITIAL VOLUME IN PLACE	AREA	AVERAGE PAY THICKNESS	BITUMEN SATURATION		POROSITY	WATER SATN	
	10 ⁶ m ³	10 ³ ha	m	mass frac	pore vol frac	frac	frac	REMARKS
PEACE RIVER (CONTINUED)								
UPPER DEBOLT								
500 - 800	1 830	100	13		0.61	0.19	0.39	
SUBTOTAL	1 830							
LOWER DEBOLT								
500 - 800	5 970	202	29		0.67	0.18	0.30	
SUBTOTAL	5 970							
SHUNDA								
500 - 800	2 510	143	14		0.52	0.23	0.48	
SUBTOTAL	2 510							
TOTAL	266 400							DISCREPANCIES IN TOTAL AND SUBTOTALS ARE DUE TO ROUNDING

4 RESERVES OF GAS

4.1 PROVINCIAL SUMMARY

The Board estimates the remaining established reserves of marketable gas in Alberta at 31 December 1989 to be 1650 billion cubic metres, having a thermal (heating value) energy content of 63.5 exajoules. This represents a net increase of 22 billion cubic metres since 31 December 1988. The reserves include ethane and natural gas liquids subsequently recovered at reprocessing plants as discussed in Section 4.6. The changes in reserves during 1989 are shown below:

	Remaining Established Reserves of Marketable Gas			
	Actual Heating Value Basis	Change	37.4 MJ/m ³ Basis	Energy Content
	10 ⁹ m ³			10 ¹⁸ J
At 31 December 1988				
Associated and solution	280.3			
Non-associated	1 347.4			
Total	1 627.7		1 673.7	62.6
Additions during 1989	107.8		110.8	4.1
Less production during 1989	85.8		86.3	3.2
At 31 December 1989				
Associated and solution	282.9	+ 2.6	302.8	11.3
Non-associated	1 366.8	+19.4	1 395.4	52.2
Total	1 649.7	+22.0	1 698.2	63.5
	(58 555) ^a		(60 276) ^b	

^a Imperial equivalent in billions of cubic feet at 14.65 pounds per square inch absolute and 60 degrees Fahrenheit.

^b Imperial equivalent in billions of cubic feet of 1000 British thermal units per cubic foot of gas.

At year-end 1989, gas reserves were assigned to 21 676 pools in the province. Of these, 8011 had produced or are being produced and had remaining established reserves of 1153 billion cubic metres after cumulative production of 1549 billion. The 13 665 pools not on production had aggregate initial established reserves of marketable gas of 496 billion cubic metres, including 36 billion cubic metres of associated initial marketable gas reserves (gas-cap gas) classified as deferred.

4.2 RESERVES OF GAS CONTAINING HYDROGEN SULPHIDE

Some 1931 gas pools in the province contain at least some hydrogen sulphide and may be classed as "sour". The distribution of established reserves of sweet and sour gas is shown below:

Type of Gas	Raw Gas		Marketable Gas		
	Initial Volume in Place	Initial Producible	Initial Established Reserves	Net Cumulative Production	Remaining Established Reserves
	10 ⁶ m ³				
Sweet					
Associated Solution	346 426	278 872	389 534	203 985	185 549
Non-associated	442 434	202 972			
Subtotal	2 504 188	1 808 697	1 679 489	687 539	991 950
	3 293 048	2 290 541	2 069 023	891 524	1 177 499
Sour					
Associated Solution	259 816	205 997	234 242	136 851	97 391
Non-associated	239 241	142 029			
Subtotal	1 625 217	1 226 931	895 759	520 922	374 837
	2 124 274	1 574 957	1 130 001	657 773	472 228
Total	5 417 322	3 865 498	3 199 024	1 549 297	1 649 727
	(192 281) ^a	(137 201) ^a	(113 545) ^a	(54 990) ^a	(58 555) ^a

^a Imperial equivalent in billions of cubic feet at 14.65 pounds per square inch absolute and 60 degrees Fahrenheit.

The distribution of marketed gas production by hydrogen sulphide content in raw gas is shown below:

H ₂ S Content in Raw Gas	1989 Cumulative Marketed Production		1989 Annual Marketed Production	
mole percentage	10 ⁶ m ³	percentage of total	10 ⁶ m ³	percentage of total
0.00	891 524	57.54	59 390	69.25
0.00-1.99	233 988	15.10	9 498	11.08
2.00-9.99	246 055	15.88	8 527	9.94
10.00-19.99	102 559	6.62	4 840	5.64
20.00-29.99	25 970	1.68	3 505 ^a	4.09
30.00 or more	49 210	3.18		
Total	1 549 297	100.00	85 760	100.00

^a Numbers grouped due to changes in H₂S contents.

Sulphur reserves are discussed in Chapter 7.

4.3 DISTRIBUTION OF GAS RESERVES BY POOL SIZE

The distribution of initial and remaining established reserves of marketable gas among pools of different size ranges is shown below. For the purposes of this table, where gas production from two or more pools is commingled in the wellbore, the pools are considered as one pool, the SE Alta Gas System (MU) is considered on a field basis, and associated and solution gas reserves in a pool have been combined.

Reserve Range	Pools		Initial Established Marketable Reserves		Remaining Established Marketable Reserves	
	number	percentage of total	10 ⁶ m ³	percentage of total	10 ⁶ m ³	percentage of total
3000 or more	151	0.69	1 713 149	53.55	661 677	40.11
1500-2999	99	0.46	200 462	6.27	103 906	6.30
300-1499	882	4.07	521 961	16.32	297 200	18.01
1-299	20 544	94.78	763 452	23.86	586 944	35.58
Total	21 676	100.00	3 199 024 (113 545) ^a	100.00	1 649 727 (58 555) ^a	100.00

^a Imperial equivalent in billions of cubic feet at 14.65 pounds per square inch absolute and 60 degrees Fahrenheit.

4.4 GROWTH OF MARKETABLE GAS RESERVES

The addition of 108 billion cubic metres to the initial established reserves during 1989 resulted partly from 19 billion cubic metres from new discoveries made during the year. The remaining 89 billion cubic metres were attributed to development drilling, the reassessment of previously discovered reserves, and reserves discovered before 1989 but first recognized by the Board in 1989. The quantity of reserves added in 1989 was the highest amount since 1982 and above the annual average for the last decade.

The reserve growth rate is more fully discussed in Chapter 8.

The pools for which initial marketable gas reserves were revised by more than 1000 million cubic metres in 1989 are listed in Table 4-1. The revisions occurred primarily as a result of detailed reviews of the reserves of these pools by operators and Board staff.

4.5 RESERVES OF POOLS CALCULATED ON AN ENERGY BASIS

Reserves of major retrograde condensate pools are tabulated on both an energy and a volumetric basis. Table 4-2 lists the initial energy in place, the recovery factor and surface loss factor (both on an energy basis), and the initial marketable energy for each pool. The table also lists raw- and marketable-gas heating values used to convert from a volumetric to an energy basis. The volumetric reserves of these pools are included in Table 4-5, but with recovery factors and surface loss factors deleted.

4.6 RESERVES OF ETHANE AND NATURAL GAS LIQUIDS INCLUDED IN GAS RESERVES

The remaining established reserves of natural gas discussed in Section 4.1 are determined at the field gate. A portion of the ethane and natural gas liquids they contain enter trunk line systems and will be extracted downstream at reprocessing plants. If these quantities which will be extracted are deducted from the remaining established reserves of marketable gas, the gas reserves and the thermal energy content would be reduced from 1650 billion to 1594 billion cubic metres and from 63.5 to 59.1 exajoules, respectively, as shown at the end of Table 4-5.

Reserves of ethane and natural gas liquids are discussed in more detail in Chapters 5 and 6, respectively.

4.7 DISCUSSION OF RESERVES TABLE 4-5

The established reserves of marketable gas have been estimated having regard for information presented by the industry in submissions and studies by the Board staff.

The established reserves of gas are listed in Table 4-5 alphabetically by strike area. Strike areas where no field has been designated by the Board are identified by "SA" immediately following the name. The approximate location of the strike area is also given. The data presented are condensed from the gas reserve system data file¹. Pools having initial marketable gas reserves greater than or equal to 300 million cubic metres are listed individually. Pools having reserves less than 300 million cubic metres are grouped within each field or area and presented as a total. The total reserve in a field or area is shown as the last entry.

Where the established reserve for a pool is based on material-balance or production-decline calculations, the reservoir factors last established for the pool for volumetric calculations have been retained for informational purposes.

Where production from two or more pools is commingled before measurement, the initial reserve estimate for each pool is shown, if available, together with the total reserve estimate for the pools. Production is subtracted from the sum of the initial established marketable reserves of the pools to obtain the remaining established marketable reserves. Similarly, because production of associated- and solution-gas reserves for a pool has not been determined separately, the combined net cumulative production is subtracted from the sum of the initial established marketable reserves of associated and solution gas. Therefore, Table 4-5 shows initial reserves by category but includes remaining associated- and solution-gas reserves only on a combined basis.

Gas reserves in communication with crude bitumen have been classified as non-associated reserves in this report.

The amount of marketable gas produced from a pool is determined by adjusting the cumulative raw gas production from the pool for the estimated surface loss. Where gas has been injected for the enhanced recovery of oil, cycling of gas pools, and gas storage, the volumes of injected gas are included in the remaining established reserves of marketable gas (column 6) of the respective pools. The volumes credited to the pools have been adjusted to reflect projected losses in the reservoir and in handling and processing.

The marketed gas production generated by the gas reserves system for 1989 was 85.8 billion cubic metres. (The actual net production of marketable gas, as determined from production reports, is reported in the Board's publication ERCB ST 90-17, "Alberta Oil and Gas Industry—Annual Statistics" and for 1989 was 82.4 billion cubic metres.) It is emphasized that because changes due to errors or to amendments to production reports have been made to the previously reported cumulative raw gas production for some pools, and because of the adjustments made to the injected gas volumes discussed above, net production volumes for any year should not be calculated from cumulative numbers appearing in this and previous reports.

The major purchasers of gas from particular fields are shown in column 20. This information has been updated to year-end 1989 based on the lands under contract data provided to the Board by those purchasers.

¹ The Board maintains a computer file of detailed reserves information for each pool in Alberta containing gas. The non-confidential portion of the file for year-end 1989 is available in the following forms:

- (a) Magnetic computer tape of the gas reserve file.
- (b) A COM-microfiche publication of gas reserves and reserve factors.

4.8 OTHER MATTERS

A summary of the distribution of established reserves of gas by geological period is shown in Table 4-3.

Pools that are common to more than one designated field and those pools whose production is commingled with such common pools are termed "multi-field pools". The reserve for each designated pool in a multi-field pool is shown under the designated field in Table 4-5. A list of pools contained in each multi-field pool, the individual initial established reserves, and the total initial established reserves for the multi-field pool are shown in Table 4-4.

Reserves in this report have been classified as within or beyond economic reach using a simple partially computerized procedure adopted by the Board in 1979. The Board estimates the reserves classified as beyond economic reach to be 66 billion cubic metres at 31 December 1989.

The map in the back pocket of this report shows the locations of Board-designated fields as at 31 December 1989.

**TABLE 4-1 MAJOR GAS RESERVE CHANGES
1989**

Pool	1	2	3
	Initial Established Reserves		Main Reasons for Change
	1989	Change	
	10 ⁶ m ³		
Blackstone			
Beaverhill Lake A	13 500	+ 2 500	Re-evaluation of initial volume in place
Carstairs			
Elkton A	23 500	+ 1 800	Re-evaluation of initial volume in place and recovery and surface loss factors
Cecilia			
Nisku			
56-22 W5M	1 200	+ 1 200	New pool
Coleman			
Rundle A	5 100	+ 2 800	Re-evaluation of initial volume in place
Dunvegan			
Debolt A, B, C & D	28 021	+ 2 599	Re-evaluation of initial volume in place
Fir			
Leduc			
34-57-21 W5M	2 360	+ 2360	New pool
Karr			
Notikewin			
66-4 W6M	1 200	+ 1 200	New pool
Wapiti			
Falher F-1	3 700	+ 1 470	Re-evaluation of initial volume in place
Waterton			
Rundle M	3 200	+ 2 594	Development
Total		<u>+18 523</u>	

TABLE 4-2 RESERVES OF POOLS CALCULATED ON AN ENERGY BASIS
As at 31 December 1989

Pool	1 Raw Gas Initial Volume in Place	2 Raw Gas Gross Heating Value	3 Initial Energy in Place	4 Recovery Factor	5 Fuel & Shrinkage (Surface Loss Factor)	6 Initial Marketable Gas Energy	7 Marketable Gas Gross Heating Value	8 Initial Established Reserves of Marketable Gas
	10 ⁶ m ³	MJ/m ³	10 ⁶ MJ	fraction	fraction	10 ⁶ MJ	MJ m ³	10 ⁶ m ³
Brazeau River Nisku J	707	74.44	52 603	0.75	0.50	19 726	41.01	481
Brazeau River Nisku K	812	72.19	58 643	0.75	0.60	17 593	41.01	429
Brazeau River Nisku M	1 489	76.22	113 463	0.75	0.60	34 039	41.36	823
Brazeau River Nisku P	9 408	61.23	576 062	0.74	0.65	149 200	40.00	3 730
Brazeau River Nisku S	1 665	54.64	90 976	0.80	0.57	31 296	41.38	756
Caroline Beaverhill Lake A	61 152	49.95	3 054 542	0.77	0.62	893 759	42.56	21 000
Carson Creek Beaverhill Lake B	10 941	55.68	609 198	0.90	0.39	334 450	41.65	8 030
Harmattan East Rundle	36 252	50.26	1 822 003	0.85	0.26	1 146 040	40.93	28 000
Harmattan-Elkton Rundle C	31 326	46.96	1 471 056	0.90	0.27	966 484	41.48	23 300
Kakwa A Cardium A	1 120	55.40	62 069	0.85	0.32	35 876	42.71	840
Kaybob Beaverhill Lake C	2 326	63.77	148 357	0.85	0.42	73 140	41.09	1 780
Kaybob South Beaverhill Lake A	104 424	47.90	5 001 905	0.70	0.58	1 470 560	40.40	36 400
Ricinus Cardium A	8 316	58.59	487 221	0.85	0.32	281 614	40.52	6 950
Ricinus Cardium B	547	56.87	31 108	0.85	0.48	13 750	40.44	340
Valhalla Halfway B	5 885	53.89	317 143	0.80	0.33	169 989	40.00	4 250
Waterton Rundle- Wabamun A	79 529	48.74 ^a	3 876 243	0.78	0.36	1 935 025	39.25	49 300
Wembley Halfway B	6 093	53.89	328 352	0.80	0.33	175 997	40.00	4 400

TABLE 4-2 (continued)

Pool	1	2	3	4	5	6	7	8
	Raw Gas Initial Volume in Place	Raw Gas Gross Heating Value	Initial Energy in Place	Recovery Factor	Fuel & Shrinkage (Surface Loss Factor)	Initial Marketable Gas Energy	Marketable Gas Gross Heating Value	Initial Established Reserves of Marketable Gas
	10 ⁶ m ³	MJ/m ³	10 ⁶ MJ	fraction	fraction	10 ⁶ MJ	MJ/m ³	10 ⁶ m ³
Westerose D-3	3 597	51.55	185 422	0.90	0.25	125 160	41.72	3 000
Westpem Nisku E	1 160	66.05	76 654	0.90	0.54	31 735	44.76	709
Windfall D-3 A	21 288	53.42	1 137 217	0.60	0.53	320 695	42.42	7 560

^a Produccible raw gas gross heating value is 40.65 MJ/m³.

TABLE 4-3 DISTRIBUTION OF ESTABLISHED RESERVES OF GAS BY GEOLOGICAL PERIOD
As at 31 December 1989

	1	2	3	4	5	6	7	8
	Raw Gas	Marketable Gas			Raw Gas	Marketable Gas		
Geological Period	Initial Volume in Place	Initial Established Reserves	Net Cumulative Production	Remaining Energy Content	Initial Volume in Place	Initial Established Reserves	Net Cumulative Production	Remaining Energy Content
	10 ⁶ m ³			TJ	Percentage of total			
Tertiary								
Tertiary	121	70	2	2 462				
Subtotal	121	70	2	2 462				
Upper Cretaceous								
Belly River	93 702	56 081	21 396	1 299 352	1.72	1.75	1.38	2.04
Milk River & Med Hat	422 756	278 466	138 472	5 105 139	7.80	8.70	8.93	8.03
Cardium	254 363	86 608	33 612	2 150 777	4.69	2.70	2.16	3.38
Second White Specks	4 389	2 928	444	93 743	0.08	0.09	0.02	0.14
Other	29 296	19 404	5 503	550 842	0.54	0.60	0.35	0.86
Subtotal	804 506	443 487	199 427	9 199 853	14.85	13.86	12.87	14.48
Lower Cretaceous								
Viking	389 289	270 618	153 041	4 398 826	7.18	8.45	9.87	6.92
Basal Colorado	39 249	31 854	27 033	178 530	0.72	0.99	1.74	0.28
Mannville	1 357 293	902 158	356 416	20 906 794	25.05	28.20	23.00	32.91
Other	46 055	30 707	14 763	614 185	0.85	0.95	0.95	0.96
Subtotal	1 831 886	1 235 337	551 253	26 098 335	33.81	38.61	35.58	41.09
Jurassic								
Jurassic	42 219	26 025	8 518	693 335	0.77	0.81	0.54	1.09
Other	72 643	46 849	16 366	1 202 963	1.34	1.46	1.05	1.89
Subtotal	114 862	72 874	24 884	1 896 298	2.12	2.27	1.60	2.98
Triassic								
Triassic	48 759	31 137	7 454	951 367	0.90	0.97	0.48	1.49
Other	54 322	35 798	4 415	1 221 235	1.00	1.11	0.28	1.92
Subtotal	103 081	66 935	11 869	2 172 602	1.90	2.09	0.76	3.42
Permian								
Belloy	7 079	4 412	1 143	117 237	0.13	0.13	0.07	0.18
Other	297	207	—	7 963	—	—	—	0.01
Subtotal	7 376	4 619	1 143	125 200	0.13	0.14	0.07	0.19
Mississippian								
Rundle	986 697	600 224	377 959	8 691 456	18.21	18.76	24.39	13.68
Other	81 258	56 259	30 405	992 823	1.49	1.75	1.96	1.56
Subtotal	1 067 955	656 483	408 364	9 684 279	19.71	20.52	26.35	15.24

TABLE 4-3 (continued)

	1	2	3	4	5	6	7	8
	Raw Gas	Marketable Gas			Raw Gas	Marketable Gas		
Geological Period	Initial Volume in Place	Initial Established Reserves	Net Cumulative Production	Remaining Energy Content	Initial Volume in Place	Initial Established Reserves	Net Cumulative Production	Remaining Energy Content
	10 ⁶ m ³			TJ	Percentage of total			
Upper Devonian								
Wabamun	222 567	99 307	56 719	1 586 569	4.10	3.10	3.66	2.49
Nisku	93 672	44 859	14 461	1 206 044	1.72	1.40	0.93	1.89
Leduc	466 492	237 862	168 049	2 772 275	8.61	7.43	10.84	4.36
Beaverhill Lake	401 144	173 306	68 044	4 228 540	7.40	5.41	4.39	6.65
Other	85 309	43 184	32 204	416 934	1.57	1.34	2.07	0.65
Subtotal	1 269 184	598 518	339 477	10 210 362	23.42	18.70	21.91	16.07
Middle Devonian								
Sulphur Point	12 331	8 218	903	278 833	0.22	0.25	0.05	0.43
Muskeg	4 824	2 479	397	86 202	0.08	0.07	0.02	0.13
Keg River	47 411	22 568	5 848	680 382	0.87	0.70	0.37	1.07
Other	23 106	9 571	5 730	142 783	0.42	0.29	0.36	0.22
Subtotal	87 672	42 836	12 878	1 188 200	1.61	1.33	0.83	1.87
Beyond economic reach	112 340	65 867	—	2 484 069	2.07	2.05	—	3.91
Confidential ^a	18 339	11 998	—	451 249	0.33	0.37	—	0.71
Total	5 417 322	3 199 024	1 549 297	63 512 909	100.00 ^b	100.00 ^b	100.00 ^b	100.00 ^b
	(192 281) ^c	(113 545) ^c		(60 224) ^d				

^a Some "confidential" reserves included in "beyond economic reach" category.

^b Discrepancies are due to rounding.

^c Imperial equivalent in billions of cubic feet at 14.65 pounds per square inch absolute and 60 degrees Fahrenheit.

^d Imperial equivalent in billions of cubic feet of 1000 British thermal units per cubic foot of gas.

TABLE 4-4 RESERVES OF MULTI-FIELD POOLS
As at 31 December 1989

Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³	Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³
Edmonton Pool No. 1		Medicine Hat Second White Specks K ^a	4
Bashaw Edmonton D	66	Medicine Hat Second White Specks L ^a	10
Nevis Edmonton D	342	Medicine Hat Second White Specks P ^b	5
Total	408	Newell Milk River A	957
		Princess Milk River A	7 770
Belly River Pool No. 1		Suffield Milk River A	20 700
Bashaw Belly River C	963	Verger Milk River A	5 230
Bashaw Belly River G	43	Wintering Hills Milk River A	1 290
Bashaw Belly River H	181	Total	111 608
Bashaw Belly River L	20		
Bashaw Belly River M	228	Medicine Hat Pool No. 1	
Bashaw Belly River Q	15	Alderson Medicine Hat A	2 800
Nevis Belly River C	929	Atlee-Buffalo Medicine Hat A	2 470
Total	2 379	Bantry Medicine Hat A	3 410
		Bassano Medicine Hat A	418
Belly River Pool No. 2		Berry Medicine Hat A	53
Bruce Belly River J	346	Bindloss Medicine Hat A	372
Holmberg Belly River J	86	Blackfoot Medicine Hat A	140
Total	432	Brooks Medicine Hat A	44
		Cassils Medicine Hat A	840
Belly River Pool No. 3		Cessford Medicine Hat A	7 250
Fenn-Big Valley Belly River J	306	Connorsville Medicine Hat A	1 920
Gadsby Belly River J	1 560	Countess Medicine Hat A	7 670
Total	1 866	Estuary Medicine Hat A	136
		Eyremore Medicine Hat A	118
Milk River Pool No. 1		Gleichen Medicine Hat A	580
Alderson Milk River A	13 400	Hussar Medicine Hat A	2 950
Atlee-Buffalo Milk River A	5 500	Jenner Medicine Hat A	1 300
Bantry Milk River A	5 980	Kitsim Medicine Hat A	270
Bindloss Milk River A	1 010	Lathom Medicine Hat A	245
Bow Island Milk River A	67	Leckie Medicine Hat A	158
Brooks Milk River A	295	Matziwin Medicine Hat A	1 430
Cassils Milk River A	1 650	Medicine Hat Medicine Hat A	50 000
Cessford Milk River A	2 780	Mossleigh Medicine Hat A	28
Connorsville Milk River A	676	Newell Medicine Hat A	79
Countess Milk River A	5 890	Princess Medicine Hat A	4 350
Hussar Belly River C	30	Seiu Lake Medicine Hat A	581
Hussar Milk River A	128	Shouldice Medicine Hat A	640
Jenner Milk River A	3 510	Suffield Medicine Hat A	11 200
Johnson Milk River A	356	Verger Medicine Hat A	6 000
Kitsim Milk River A	125	Wayne-Rosedale Medicine Hat A	1 130
Leckie Milk River A	365	Wintering Hills Medicine Hat A	3 980
Matziwin Milk River A	1 880	Total	112 562
Medicine Hat Milk River A	30 600		
Medicine Hat Second White Specks D ^a	1 400		

TABLE 4-4 (continued)

Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³	Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³
Medicine Hat Pool No. 3			
Alderson Medicine Hat C	670	Bantry Second White Specks A	1 780
Atlee-Buffalo Medicine Hat C	11	Bow Island Second White Specks A	830
Bantry Medicine Hat C	915	Bow Island Second White Specks C ^e	7
Bow Island Medicine Hat C	12	Cessford Second White Specks A	410
Brooks Medicine Hat C	26	Countess Second White Specks A	536
Cassils Medicine Hat C	100	Jenner Second White Specks A	1 130
Cessford Medicine Hat C	221	Johnson Second White Specks A	98
Countess Medicine Hat C	104	Matziwin Second White Specks A	60
Eyremore Medicine Hat C	29	Medicine Hat Second White Specks A	5 200
Jenner Medicine Hat C	36	Princess Second White Specks A	5 530
Leckie Medicine Hat C	12	Suffield Second White Specks A	11 300
Matziwin Medicine Hat C	33	Verger Second White Specks A	2 590
Medicine Hat Medicine Hat C	2 600	Total	<u>42 018</u>
Medicine Hat Second White Specks J ^c	314		
Medicine Hat Second White Specks M ^d	9	Bow Island Pool No. 1	
Medicine Hat Lower Colorado Sand A ^c	250	Medicine Hat Bow Island C	332
Newell Medicine Hat C	54	Suffield Bow Island C	311
Princess Medicine Hat C	357	Total	<u>643</u>
Suffield Medicine Hat C	844		
Verger Medicine Hat C	134	Viking Pool No. 1	
Total	<u>6 731</u>	Fairydell-Bon Accord Upper Viking A	1 050
Medicine Hat Pool No. 4		Fairydell-Bon Accord Middle Viking A	2 800
Alderson Medicine Hat D	194	Fairydell-Bon Accord Middle Viking B	511
Atlee-Buffalo Medicine Hat D	22	Peavey Upper Viking A	12
Bantry Medicine Hat D	82	Redwater Upper Viking A	1 940
Bindloss Medicine Hat D	3	Redwater Middle Viking A	601
Brooks Medicine Hat D	4	Redwater Lower Viking A	299
Cessford Medicine Hat D	545	Westlock Middle Viking B	323
Countess Medicine Hat D	60	Total	<u>7 536</u>
Jenner Medicine Hat D	70		
Matziwin Medicine Hat D	101	Viking Pool No. 2	
Medicine Hat Medicine Hat D	2 400	Beaverhill Lake Upper Viking A & B, Middle Viking A, and Lower Viking A	4 800
Newell Medicine Hat D	18	Bellshill Lake Upper Viking A	104
Princess Medicine Hat D	253	Birch Upper and Middle Viking A	42
Suffield Medicine Hat D	1 000	Bruce Upper Viking A & F, Middle Viking A & B, and Upper Mannville Z	3 910
Verger Medicine Hat D	240	Dinant Upper Viking A	69
Total	<u>4 992</u>		
Second White Specks Pool No. 1			
Alderson Second White Specks A	12 500		
Atlee-Buffalo Second White Specks A	47		

TABLE 4-4 (continued)

Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³	Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³
Fort Saskatchewan Upper and Middle Viking A	7 500	Plain Viking A	18
Holmberg Upper Viking A	82	St. Paul Viking A	200
Killam Upper and Middle Viking A	1 400	Stry Viking A	185
Killam North Upper and Middle Viking A, Basal		Sugden Viking A	2 560
Mannville C & U, and Nisku A	1 135	Therien Viking A	165
Mannville Upper and Middle Viking A	277	Ukalta Viking A	131
Sedgewick Upper Viking A	178	Whitford Viking A	404
Viking-Kinsella Upper and Middle Viking A and Upper Mannville YY	29 000	Willingdon Viking A	202
Total	48 497	Willingdon Viking B	4
		Total	10 705
Viking Pool No. 3		Viking Pool No. 7	
Carbon Viking D	1 400	Inland Upper Viking C & E and Middle Viking F, G, & I	268
Ghost Pine Viking D	208	Royal Upper Viking C and Lower Viking A	43
Total	1 608	Total	311
Viking Pool No. 4		Viking Pool No. 10	
Fenn-Big Valley Viking B	590	Goodridge Viking F	114
Fenn West Viking B	200	Jarvie Viking F	94
Lousana Viking B	12	Westlock Viking F	251
Total	802	Total	459
Viking Pool No. 5		Viking Pool No. 11	
Hudson Viking A	687	Jarvie Viking G	65
Sedalia Viking A, Viking F, Upper Mannville D, and Lower Mannville B	419	Westlock Viking G	112
Total	1 106	Total	177
Viking Pool No. 6		Viking Pool No. 12	
Ashmont Viking A	448	Atlee-Buffalo Viking A	15
Cache Viking A	895	Suffield Viking A	32
Canard Viking A	152	Total	47
Clay Viking A	430	Viking Pool No. 13	
Corrin Viking A	291	Chigwell Viking G	95
Craigend Viking A	3 600	Nelson Viking G	164
Duvernay Viking A	637	Total	259
Duvernay Viking M	23	St. Edouard Pool No. 3	
Hairy Hill Viking A	295	Ukalta St. Edouard B	60
Owlseye Viking A	65	Whitford St. Edouard B	34
		Total	94

TABLE 4-4 (continued)

Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³	Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³
Glaucanitic Pool No. 3		Hotchkiss Bluesky-Detrital-Debolt A	2 870
Bonnie Glen Glaucanitic A	1 050	Total	4 590
Ferrybank Glaucanitic A	1 120		
Total	2 170		
Glaucanitic Pool No. 4		Gething Pool No. 1	
Cessford Glaucanitic T	248	Fox Creek Gething D	136
Cessford Mannville HH	779	Fox Creek Gething H	4 210
Wayne-Rosedale Glaucanitic T	1 540	Kaybob South Gething H	1 170
Total	2 567	Total	5 516
Glaucanitic Pool No. 5		Ellerslie Pool No. 1	
Bigoray Glaucanitic I	1 140	Connorsville Glaucanitic A	232
Pembina Glaucanitic I	2 550	Connorsville Glaucanitic B	22
Pembina Lobstick Glaucanitic D	91	Connorsville Glaucanitic C	168
Pembina Ostracod C	131	Connorsville Glaucanitic E	140
Total	3 912	Connorsville Glaucanitic I	22
Glaucanitic Pool No. 6		Connorsville Ellerslie A	2 750
Countess Glaucanitic III	1 350	Wintering Hills Ellerslie A	1 530
Countess Upper Mannville LL	48	Total	4 864
Hussar Glaucanitic III	409		
Wintering Hills Glaucanitic III	57	Cadomin Pool No. 1	
Total	1 864	Elmworth Cadomin A	4 730
Bluesky Pool No. 1		Sinclair Cadomin A	2 750
Boyer Bluesky A & Gething A	11 375	Wapiti Cadomin A	6 000
Haro Bluesky A	4 958	Total	13 480
Rainbow Bluesky A	4 637		
Rainbow South Bluesky A	137	Halfway Pool No. 1	
Sousa Bluesky A	928	Valhalla Halfway B	4 250
Steen Bluesky A	376	Wembley Halfway B	6 315
Virgo Bluesky A	320	Total	10 565
Total	22 731		
Bluesky-Detrital-Debolt Pool No. 1		Banff Pool No. 1	
Cranberry Bluesky-Detrital-Debolt A	1 720	Haro Banff E	66
		Rainbow Banff E	13
		Rainbow South Banff E	59
		Total	138

^a Also commingled with the Medicine Hat Medicine Hat A, C, and D pools.

^b Also commingled with the Medicine Hat Medicine Hat C and D and Second White Specks A pools.

^c Also commingled with the Medicine Hat Medicine Hat D Pool.

^d Also commingled with the Medicine Hat Medicine Hat D and Medicine Hat Second White Specks A pools.

^e Also commingled with the Bow Island Medicine Hat A, C, and D pools.



Reserves of Gas and Basic Data

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ABEE 062-23W4 TOTAL-ABEE	2 486			1 564	672	892		33 519	
ACADIA 026-04W4 TOTAL-ACADIA	219			152	3	149		5 500	
ACHESON 052-26W4 D-3 A SOLN	2 669	0.68	0.30	1 271	1 193	78	43	3 386	
OTHER	2 107			1 248	273	975		39 932	
TOTAL-ACHESON	4 776			2 519	1 466	1 053		43 318	
ACHESON EAST 052-26W4 TOTAL-ACHESON EAST	679			306	33	273		10 454	
ACME 029-25W4 TOTAL-ACME	331			214		214		8 117	
ADEN 001-09W4 RUNDLE A	958	0.85	0.15	692	355	337	37	12 499	711
OTHER	576			392	233	159		5 924	
TOTAL-ADEN	1 534			1 084	588	496		18 423	
AERIAL 029-18W4 TOTAL-AERIAL	840			493	93	400		15 244	
AETNA (SA) 002-25W4 TOTAL-AETNA	136			98		98		3 700	
AKUINU 066-04W5 TOTAL-AKUINU	557			386	180	206		7 727	
ALBERS 041-07W4 TOTAL-ALBERS	133			90		90		3 208	
ALBRIGHT 072-09W6 TOTAL-ALBRIGHT	924			652		652		25 400	
ALCOMDALE 058-26W4 TOTAL-ALCOMDALE	8			5	5				
ALDER 045-08W5 TOTAL-ALDER	161			109		109		4 413	
ALDERSON 015-11W4 MILK RIVER A	20 150	0.70	0.05	13 400			36		157 212
MEDICINE HAT A	4 124	0.70	0.03	2 800			36		67 799
MEDICINE HAT C	1 382	0.50	0.03	670			36		57 415
MEDICINE HAT D	400	0.50	0.03	194			36		16 618
SECOND WHITE SPECKS A	17 544	0.75	0.05	12 500			36		144 504
SE ALTA GAS SYS(MU) TOTAL	43 600	0.70	0.05	29 564	16 138	13 426	36	489 646	
BOW ISLAND O	491	0.80	0.05	373	185	188	37	6 954	1 333
UPPER MANNVILLE M	442	0.85	0.10	338	19	319	36	11 382	440
UPPER MANNVILLE LLL	611	0.85	0.10	467	247	220	36	7 942	323
OTHER	7 959			5 278	1 181	4 097		149 999	
TOTAL-ALDERSON	53 103			36 020	17 770	18 250		665 923	
ALEXANDER 056-27W4 BASAL QUARTZ A	4 299	0.94	0.03	3 920	3 918	2	39	77	4 698
OTHER	646			415	104	311		11 999	
TOTAL-ALEXANDER	4 945			4 335	4 022	313		12 076	
ALEXIS 056-05W5 BANFF A SOLN	387	0.65	0.40	151b			39		
BANFF A ASSOC	306	0.85	0.10	234b	166b	219	39	8 598	320
OTHER	310			208	4	204		7 805	
TOTAL-ALEXIS	1 003			593	170	423		16 403	
ALIX 040-23W4 TOTAL-ALIX	707			347	112	235		8 858	
ALKALI 024-05W4 TOTAL-ALKALI	77			55		55		2 011	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
						0.88		1950	1986	ESSO
10.10	0.120	0.65	6 850	24	0.877	0.58	868.6	1960	1989	CMG MATERIAL BALANCE
5.05	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
1.41	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1982	PART OF MED HAT POOL NO.1
0.61	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.3
0.61	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1988	PART OF MED HAT POOL NO.4
1.57	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	PART OF 2WS POOL NO.1
2.88	0.277	0.65	6 560	25	0.881	0.58	736.6	1904	1988	CWNGNUL SCEPTRE ESSO KANNGAZ TCPL CTYMEDH
6.00	0.200	0.65	11 270	33	0.814	0.66	1 003.3	1981	1989	SCEPTRE TCPL
7.81	0.228	0.85	8 090	31	0.849	0.66	991.5	1971	1983	TCPL
								1972	1989	A&S PRODUCTION DECLINE
3.11	0.220	0.80	9 210	45	0.850	0.63	1 168.1	1954	1986	POCO MATERIAL BALANCE
9.34	0.131	0.65	11 410	52	0.831	0.65	1 351.5	1968	1987	PANALTA CONCURRENT PRODUCTION
						0.65		1968	1987	PANALTA CONCURRENT PRODUCTION

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ALLIANCE 040-13W4 TOTAL-ALLIANCE	64			41	1	40		1 474	
ALSASK 027-01W4 TOTAL-ALSASK	655			460	143	317		11 623	
ALSIKE 049-02W5 TOTAL-ALSIKE	13			10		10		371	
ALTARIO 034-01W4 TOTAL-ALTARIO	880			598	24	574		20 825	
AMADOU 073-20W4 TOTAL-AMADOU	98			57		57		2 082	
AMBER 115-07W6 TOTAL-AMBER	2 466			1 503	212	1 291		49 679	
AMELIA (SA) 010-27W4 TOTAL-AMELIA	26			16		16		633	
AMIGO 119-07W6 TOTAL-AMIGO	1 678			1 030		1 030		40 656	
ANATOLE 031-03W4 TOTAL-ANATOLE	149			96	2	94		3 565	
ANGLING 060-02W4 GRAND RAPIDS B		0.65	0.05				36		3 223
GRAND RAPIDS C		0.65	0.05				37		200
GRAND RAPIDS D		0.60	0.05				37		150
GRAND RAPIDS E		0.55	0.05				37		128
SPARKY A		0.65	0.05				37		200
GR RAP BCDE & SPKY A TOTAL	907	0.75	0.05	646	559	87	37	3 208	
OTHER	108			66	25	41		1 502	
TOTAL-ANGLING	1 015			712	584	128		4 710	
ANGLO 019-19W4 TOTAL-ANGLO	297			211	47	164		5 818	
ANKERTON 044-15W4 TOTAL-ANKERTON	569			364		364		13 324	
ANNE (SA) 003-21W4 TOTAL-ANNE	81			58		58		1 895	
ANSELL 052-20W5 CARDIUM A	346	0.20	0.10	62			41		400
CARDIUM B	126	0.60	0.15	65			42		200
CARDIUM C	73	0.60	0.10	40			40		200
CARDIUM FF	13 000	0.20	0.10	2 340			41		13 778
CARDIUM A,B,C & FF TOTAL	13 545	0.20	0.10	2 507	303	2 204	41	89 945	
VIKING A	389	0.65	0.10	228			39		714
CADOMIN B	693	0.65	0.10	405			38		1 019
VIKING A & CADOMIN B TOTAL	1 082	0.65	0.10	633	15	618	39	23 799	
BLUESKY A	584	0.75	0.10	394	4	390	40	15 655	774
CADOMIN A	511	0.85	0.10	391	4	387	40	15 391	646
CADOMIN C	532	0.85	0.05	429	5	424	39	16 714	673
OTHER	2 010			1 377	121	1 256		49 087	
TOTAL-ANSELL	18 264			5 731	452	5 279		210 591	
ANTE CREEK 065-24W5 PEACE RIVER A	608	0.80	0.05	462	145	317	39	12 468	1 706
BEAVERHILL LAKE SOLN	2 028	0.60	0.20	974	879	95	44	4 220	
OTHER	754			445	14	459		19 285	
TOTAL-ANTE CREEK	3 390			1 881	1 010	871		35 973	
ANTE CREEK NORTH 067-23W5 TOTAL-ANTE CREEK NORTH	1 118			794	3	791		30 685	
ANTELOPE 030-01W4 COLONY A	503	0.85	0.05	407	142	265	37	9 771	3 333

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.79	0.286	0.85	2 460	12	0.949	0.58	327.3	1981	1988	PRODUCTION DECLINE
1.00	0.320	0.60	2 500	13	0.947	0.56	326.5	1982	1988	PRODUCTION DECLINE
1.10	0.310	0.55	2 450	15	0.949	0.56	368.8	1981	1988	PRODUCTION DECLINE
1.60	0.280	0.60	2 290	14	0.952	0.56	309.6	1982	1988	PRODUCTION DECLINE
1.00	0.310	0.50	2 600	13	0.945	0.56	340.7	1982	1988	PRODUCTION DECLINE
								1981	1988	TRITON CNG
5.90	0.100	0.70	19 990	61	0.813	0.67	2 216.6	1981	1988	
4.70	0.090	0.75	19 770	77	0.812	0.74	2 147.8	1980	1988	
2.20	0.115	0.75	19 840	76	0.840	0.70	2 147.5	1986	1988	
5.49	0.115	0.75	20 010	74	0.823	0.71	2 174.5	1976	1989	
								1976	1989	PANALTA DIRECT A&S NRTHRGE DEKALB CONHUNT KANNGAZ TCPL
2.00	0.139	0.80	29 270	87	0.945	0.65	2 712.1	1976	1987	
5.27	0.084	0.75	25 370	104	0.934	0.69	3 045.1	1976	1987	
								1976	1987	
4.33	0.094	0.75	32 000	103	0.979	0.67	2 991.9	1974	1989	NRTHRGE
4.73	0.091	0.75	28 560	83	0.932	0.65	3 112.8	1974	1987	
4.80	0.099	0.75	28 780	107	0.971	0.62	2 981.1	1980	1987	WCST PANALTA DIRECT KANNGAZ TCPL
2.24	0.195	0.65	12 130	54	0.840	0.62	1 665.7	1962	1989	TCPL
						0.86		1962	1988	TCPL
1.49	0.302	0.40	7 650	26	0.867	0.58	767.0	1957	1989	CANST

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ANTELOPE 030-01W4 (CONTINUED)									
OTHER	1 688			1 049	359	690		25 126	
TOTAL-ANTELOPE	2 191			1 456	501	955		34 897	
ANTHONY (SA) 083-24W5									
TOTAL-ANTHONY	32			16		16		613	
ANTLER (SA) 048-24W5									
BL 31-048-23	839	0.90	0.10	680		680	37	25 310	150
PEK 33-048-24	702	0.80	0.10	506		506	40	20 038	128
TOTAL-ANTLER	1 541			1 186		1 186		45 348	
APETOWUN (SA) 052-22W5									
NIS 22-052-22	873	0.75	0.45	360		360	36	13 118	200
OTHER	184			124		124		4 671	
TOTAL-APETOWUN	1 057			484		484		17 789	
APHRODITES (SA) 014-01W5									
TOTAL-APHRODITES	317			242		242		10 500	
ARDENODE 026-25W4									
TOTAL-ARDENODE	72			48		48		1 767	
ARGUS (SA) 103-08W6									
TOTAL-ARGUS	53			32		32		1 159	
ARMADA 016-19W4									
TOTAL-ARMADA	1 022			699	247	452		16 753	
ARMISIE 052-25W4									
TOTAL-ARMISIE	219			89	25	64		2 610	
ARMITAGE 074-14W4									
TOTAL-ARMITAGE	366			204		204		7 470	
ARNESON 025-02W4									
TOTAL-ARNESON	358			249	56	193		7 051	
ARTLAND 044-02W4									
TOTAL-ARTLAND	273			183		183		6 667	
ARVILLA 058-27W4									
TOTAL-ARVILLA	349			226	18	208		7 881	
ASHMONT 060-11W4									
VIKING A	1 179	0.40	0.05	448		448	37	16 710	21 610
OTHER	937			596	216	380		14 243	
TOTAL-ASHMONT	2 116			1 044	216	828		30 953	
ASTOTIN 054-19W4									
TOTAL-ASTOTIN	412			250	108	142		5 216	
ATHABASCA 066-23W4									
GRAND RAPIDS B	663	0.80	0.05	504	278	226	38	8 658	2 155
OTHER	1 339			889	287	602		22 500	
TOTAL-ATHABASCA	2 002			1 393	565	828		31 158	
ATHABASCA EAST 066-22W4									
D-1 B	587	0.75	0.05	418	279	139	37	5 194	660
OTHER	1 652			1 083	567	516		19 342	
TOTAL-ATHABASCA EAST	2 239			1 501	846	655		24 536	
ATIM 054-26W4									
TOTAL-ATIM	116			85	42	43		1 606	
ATLEE-BUFFALO 021-08W4									
MILK RIVER A	8 270	0.70	0.05	5 500			36		70 290
MEDICINE HAT A	3 637	0.70	0.03	2 470			36		63 389
MEDICINE HAT C	22	0.50	0.03	11			36		1 053
MEDICINE HAT D	45	0.50	0.03	22			36		2 656

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
22.82 30.84	0.200 0.090	0.65 0.80	20 820 33 270	84 108	0.880 1.006	0.71 0.64	2 088.3 4 015.2	1977 1977	1988 1982	BER BER TOP/BASE TVD
57.69	0.040	0.65	35 300	109	0.903	0.80	4 121.7	1981	1982	
1.03	0.253	0.50	3 890	15	0.917	0.58	420.1	1949	1988	PANALTA MIP PWGE TCPL PART OF VIK POOL NO.6
3.41	0.356	0.65	3 640	17	0.916	0.60	491.6	1952	1981	AMOCO TCPL
8.77	0.176	0.50	3 720	30	0.935	0.56	605.8	1970	1988	TCPL PRODUCTION DECLINE
4.65	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
1.33	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	PART OF MED HAT POOL NO.1
0.53	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.3
0.43	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.4

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ATLEE-BUFFALO 021-08W4 (CONTINUED)									
SECOND WHITE SPECKS A	65	0.75	0.05	47			36		1 073
SE ALTA GAS SYS (MU) TOTAL	12 039	0.70	0.05	8 050	3 592	4 458	36	162 583	
VIKING H	811	0.85	0.05	655	560	95	36	3 391	11 442
OTHER	4 506			2 914	532	2 382		86 216	
TOTAL-ATLEE-BUFFALO	17 356			11 619	4 684	6 935		252 190	
ATMORE 067-17W4									
MCMURRAY A	700	0.80	0.05	532	168	364	37	13 497	10 229
MCMURRAY B		0.70	0.05				37		3 734
NISKU A		0.70	0.05				37		1 883
NISKU A & MCMURRAY B TOTAL	1 774	0.70	0.05	1 180	901	279	37	10 312	
OTHER	2 277			1 376	602	774		28 697	
TOTAL-ATMORE	4 751			3 088	1 671	1 417		52 506	
AUBURNDALE 047-06W4									
TOTAL-AUBURNDALE	1 121			726	379	347		12 645	
BADGER 016-18W4									
TOTAL-BADGER	1 144			824	54	770		28 862	
BALSAM 082-10W6									
KISKATINAW A	945	0.85	0.05	763	330	433	37	16 203	1 086
OTHER	992			724	43	681		26 205	
TOTAL-BALSAM	1 937			1 487	373	1 114		42 408	
BANSHEE 060-22W5									
LED 14-050-22	957	0.85	0.45	447		447	37	16 593	200
TOTAL-BANSHEE	957			447		447		16 593	
BANTRY 016-13W4									
MILK RIVER A	8 993	0.70	0.05	5 980			36		78 738
MEDICINE HAT A	5 021	0.70	0.03	3 410			36		71 404
MEDICINE HAT C	1 886	0.50	0.03	915			36		43 059
MEDICINE HAT D	170	0.50	0.03	82			36		6 948
SECOND WHITE SPECKS A	2 499	0.75	0.05	1 780			36		34 379
SE ALTA GAS SYS(MU) TOTAL	18 569	0.70	0.05	12 167	7 869	4 298	36	156 748	
VIKING U	491	0.75	0.05	350			38		4 074
VIKING V	39	0.75	0.05	28			38		200
VIKING W	23	0.75	0.05	16			38		200
BASAL COLORADO C	182	0.75	0.05	130			36		1 328
VIKING T	7	0.75	0.05	5			38		200
VIK TUVW & BSL COLO C TOTAL	742	0.75	0.05	529	312	217	37	8 072	
MANNVILLE A ASSOC	277	0.90	0.10	224b			37		488
MANNVILLE A SOLN	2 960	0.25	0.50	370b			37		
MANNVILLE A ASSOC	282	0.90	0.10	229b			37		634
MANNVILLE A ASSOC	16	0.90	0.10	13b			37		48
MANNVILLE A ASSOC	262	0.90	0.10	212b			37		530
MANNVILLE A ASSOC	10	0.90	0.10	8b			37		32
MANNVILLE A ASSOC	28	0.90	0.10	23b			37		128
MANNVILLE A ASSOC	29	0.90	0.10	23b			37		64
MANNVILLE A ASSOC	2	0.90	0.10	2b			37		32
MANNVILLE A ASSOC	7	0.90	0.10	5b			37		32
MANNVILLE A ASSOC	35	0.90	0.10	29b			37		68
MANNVILLE A ASSOC	8	0.90	0.10	6b			37		28
MANNVILLE A TOTAL	3 916	0.40	0.30	1 144b	658b	486	37	18 060	
OTHER	5 164			3 436	1 612	1 824		67 775	
TOTAL-BANTRY	28 391			17 276	10 451	6 825		250 655	
BAPTISTE 067-22W4									
MANNVILLE C	26	0.70	0.05	17			38		100
MANNVILLE G	741	0.80	0.05	563			39		3 477
MANNVILLE N	22	0.70	0.05	14			38		200
MANNVILLE O	30	0.70	0.05	20			38		200
MANNVILLE P	51	0.70	0.05	34			38		200
MANNVILLE C,G,N,O&P TOTAL	870	0.80	0.05	648	257	391	38	15 038	
WABAMUN C	932	0.75	0.05	664	170	494	38	18 925	2 002
WABAMUN E	1 243	0.70	0.05	827	707	120	37	4 483	1 549
OTHER	1 291			856	263	593		22 217	
TOTAL-BAPTISTE	4 336			2 995	1 397	1 598		60 663	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
0.78	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	PART OF 2WS POOL NO.1 PROGAS PANALTA CWNGNUL CANST TCPL TCPL MATERIAL BALANCE
1.29	0.250	0.50	6 830	27	0.885	0.59	783.5	1904	1986	
								1955	1982	
1.84	0.235	0.60	2 630	25	0.951	0.57	510.7	1968	1987	PROGAS PANALTA TCPL MATERIAL BALANCE MATERIAL BALANCE
1.66	0.273	0.55	2 840	20	0.945	0.56	520.7	1960	1987	
6.57	0.158	0.65	2 860	25	0.948	0.56	507.9	1967	1987	
								1960	1985	
5.41	0.128	0.80	17 200	77	0.890	0.60	1 866.7	1974	1986	TCPL
47.54	0.044	0.85	42 040	166	1.012	0.84	4 580.6	1977	1981	PANALTA
4.51	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE PART OF MED HAT POOL NO.1 PART OF MED HAT POOL NO.3 PART OF MED HAT POOL NO.4 PART OF 2WS POOL NO.1 POGD PANALTA CWNGNUL TCPL
1.63	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	
1.11	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	
0.62	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	
0.94	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	
								1904	1986	
1.95	0.161	0.50	7 100	29	0.871	0.59	793.4	1973	1986	
2.47	0.140	0.70	7 380	27	0.863	0.59	814.4	1973	1988	
1.85	0.170	0.45	7 450	27	0.862	0.59	830.0	1973	1988	
1.13	0.200	0.65	8 550	30	0.859	0.61	881.9	1946	1986	
0.61	0.170	0.40	7 140	27	0.858	0.61	807.6	1973	1988	CWNGNUL TCPL GPP GPP ASSIGNED WELL 16-15-018-13W4M ASSIGNED WELL 10-26-017-13W4M ASSIGNED WELL 12-34-017-12W4M ASSIGNED WELL 12-01-018-13W4M ASSIGNED WELL 01-02-018-13W4M TCPL GPP
								1946	1986	
2.32	0.265	0.70	10 780	30	0.768	0.71	978.0	1947	1989	
						0.71		1947	1989	
1.82	0.265	0.70	10 780	30	0.768	0.71	981.4	1947	1989	
1.37	0.265	0.70	10 780	30	0.768	0.71	989.2	1947	1985	
2.03	0.260	0.70	10 910	30	0.765	0.72	992.5	1947	1985	
1.22	0.265	0.70	10 780	30	0.768	0.72	997.3	1947	1985	
0.91	0.265	0.70	10 780	30	0.768	0.72	993.1	1947	1985	
1.83	0.265	0.70	10 780	30	0.768	0.72	990.6	1947	1985	
0.30	0.260	0.70	10 780	30	0.768	0.72	989.2	1947	1985	TCPL TCPL TCPL PRODUCTION DECLINE
0.92	0.260	0.70	10 780	30	0.768	0.72	989.3	1947	1985	
2.06	0.268	0.70	10 960	30	0.766	0.71	997.3	1947	1985	
1.09	0.265	0.70	10 780	30	0.768	0.71	986.6	1947	1988	
								1947	1989	
3.05	0.350	0.65	3 610	24	0.932	0.55	528.9	1966	1988	
3.23	0.285	0.65	3 450	23	0.931	0.57	424.7	1966	1982	
1.67	0.270	0.65	3 560	17	0.927	0.55	453.0	1966	1979	
1.83	0.330	0.65	3 570	17	0.927	0.55	456.8	1966	1979	
2.75	0.330	0.75	3 570	17	0.927	0.55	464.1	1966	1979	
								1966	1982	
9.31	0.190	0.75	3 480	29	0.934	0.59	601.2	1976	1982	
5.02	0.150	0.70	3 520	29	0.936	0.57	584.9	1959	1987	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BARE (SA) 003-03W4 TOTAL-BARE	55			42		42		1 554	
BARK (SA) 121-07W6 TOTAL-BARK	265			180		180		6 428	
BARRHEAD 058-04W5 TOTAL-BARRHEAD	1 251			850		850		32 582	
BARTMAN 025-09W4 TOTAL-BARTMAN	200			143	13	130		4 823	
BASLINE 061-14W5 TOTAL-BASLINE	15			10		10		325	
BASHAW 042-22W4 BELLY RIVER C	1 561	0.65	0.05	963			37		19 000
BELLY RIVER G	69	0.65	0.05	43			37		787
BELLY RIVER H	292	0.65	0.05	181			37		3 511
BELLY RIVER L	33	0.65	0.05	20			38		250
BELLY RIVER Q	25	0.65	0.05	15			37		250
BELLY RIVER M	343	0.70	0.05	228			37		761
B RIVER C,G,H,L,M&O TOTAL	2 323	0.65	0.05	1 450	664	786	37	28 909	
D-3 A SOLN	261	0.65	0.15	145b			36		
D-3 A ASSDC	460	0.85	0.20	313b	296b	162	36	5 850	1 125
OTHER	4 510			2 794	853	1 941		72 562	
TOTAL-BASHAW	7 554			4 702	1 813	2 889		107 321	
BASING 048-20W5 RUND * 048-20	3 140	0.40	0.10	1 130		1 130	38	43 245	2 477
TV 048-21	1 407	0.40	0.10	507		507	38	19 038	1 710
OTHER	393			249	90	159		6 116	
TOTAL-BASING	4 940			1 886	90	1 796		68 399	
BASSANO 021-18W4 MEDICINE HAT A	616	0.70	0.03	418			36		501
SE ALTA GAS SYS (MU) TOTAL	616	0.70	0.05	418	1	417	36	15 208	
BI SS 021-21	540	0.75	0.05	385		385	36	13 879	2 625
OTHER	1 917			1 304	500	804		29 741	
TOTAL-BASSANO	3 073			2 107	501	1 606		58 828	
BATTLE 046-20W4 TOTAL-BATTLE	133			78		78		2 884	
BATTLE SOUTH 045-20W4 TOTAL-BATTLE SOUTH	370			230	50	180		6 811	
BAXTER LAKE 047-05W4 MANNVILLE B	502	0.85	0.05	406	352	54	34	1 811	917
OTHER	609			375	172	203		7 092	
TOTAL-BAXTER LAKE	1 111			781	524	257		8 903	
BEAR CANYON 082-12W6 TOTAL-BEAR CANYON	355			254		254		9 851	
BEARHILL LAKE (SA) 045-26W4 TOTAL-BEARHILL LAKE	386			253		253		9 810	
BEATON 087-02W6 TOTAL-BEATON	1 307			863	481	382		14 045	
BEATTY LAKE (SA) 122-02W6 TOTAL-BEATTY LAKE	171			111		111		4 146	
BEAUVALLON 053-10W4 COLONY K	1 783	0.75	0.05	1 270	1 265	5	37	187	3 278
COLONY L	1 126	0.65	0.05	695	630	65	38	2 443	3 072
COLONY P	588	0.75	0.05	419	113	306	37	11 383	5 110
OTHER	2 815			1 881	697	1 184		43 697	
TOTAL-BEAUVALLON	6 312			4 265	2 705	1 560		57 710	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.94	0.248	0.40	2 020	22	0.961	0.57	515.0	1977	1989	PART OF BR POOL NO.1
1.68	0.274	0.45	4 100	25	0.927	0.56	618.4	1980	1985	PART OF BR POOL NO.1
1.81	0.260	0.40	4 220	22	0.922	0.56	650.0	1978	1989	PART OF BR POOL NO.1
3.00	0.250	0.40	4 300	27	0.924	0.55	645.3	1981	1988	PART OF BR POOL NO.1
2.50	0.230	0.40	4 140	21	0.922	0.56	619.5	1981	1988	PART OF BR POOL NO.1
4.44	0.295	0.50	4 250	23	0.922	0.56	652.2	1982	1986	PART OF BR POOL NO.1 PRODUCTION DECLINE
								1977	1989	GULF PANALTA A&S KANNGAZ DEKALB TCPL PART
										OF BR POOL NO.1
5.22	0.054	0.85	16 060	60	0.804	0.77	1 754.7	1951	1987	DEKALB TCPL CONCURRENT PRODUCTION
						0.77		1951	1987	DEKALB TCPL CONCURRENT PRODUCTION
9.92	0.064	0.85	33 630	123	1.028	0.63	3 919.2	1975	1986	PANALTA TOP/BASE TVD
9.51	0.045	0.80	32 000	119	1.019	0.63	3 802.4	1978	1986	PANALTA TCPL TOP/BASE TVD
1.66	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	PART OF MED HAT POOL NO.1
2.20	0.197	0.55	8 160	33	0.879	0.58	1 144.7	1904	1983	PANALTA TCPL KANNGAZ
								1988	1989	PROGAS TCPL
2.60	0.262	0.65	4 560	24	0.922	0.61	702.5	1975	1988	PANALTA TCPL PRODUCTION DECLINE
4.56	0.280	0.75	4 260	21	0.917	0.57	564.4	1973	1985	PANALTA CWNGNUL TCPL MATERIAL BALANCE
3.98	0.284	0.75	3 780	19	0.924	0.57	533.1	1976	1988	PANALTA ESSO CWNGNUL TCPL MATERIAL BALANCE
1.82	0.280	0.60	3 560	17	0.927	0.57	482.9	1972	1985	PROGAS PANALTA TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BEAVER CROSSING 062-01W4 TOTAL-BEAVER CROSSING	115			63	35	28		1 009	
BEAVERHILL LAKE 052-19W4 UPPER VIKING A		0.80	0.03				37		200
UPPER VIKING B		0.80	0.03				37		5 685
MIDDLE VIKING A		0.85	0.03				37		33 875
LOWER VIKING A		0.80	0.03				37		13 933
UVIK AB,MVIK A&LVK A TOTAL	6 186	0.80	0.05	4 800	4 097	703	37	25 934	
OTHER	2 167			1 411	451	960		35 406	
TOTAL-BEAVERHILL LAKE	8 353			6 211	4 548	1 663		61 340	
BEAVERLODGE 072-10W6 TOTAL-BEAVERLODGE	360			250		250		9 748	
BELLIS 059-15W4 UPPER MANNVILLE B	942	0.80	0.05	716	618	98	38	3 680	4 387
UPPER MANNVILLE E		0.75	0.05				37		2 338
UPPER MANNVILLE F		0.75	0.05				38		1 531
UPPER MANNVILLE G		0.75	0.05				38		1 177
UPPER MANNVILLE H		0.75	0.05				38		200
U MANN E,F,G & H TOTAL	1 200	0.75	0.05	855	759	96	37	3 589	
OTHER	5 294			3 361	1 593	1 768		65 739	
TOTAL-BELLIS	7 436			4 932	2 970	1 962		73 008	
BELLOY 078-01W6 CADOTTE A	548	0.80	0.05	416	84	332	37	12 433	3 033
DEBOLT B	494	0.80	0.10	356	131	225	39	8 813	890
OTHER	3 553			2 393	918	1 475		56 538	
TOTAL-BELLOY	4 595			3 165	1 133	2 032		77 784	
BELLSHILL LAKE 041-13W4 BLAIRMORE ASSOC	135	0.70	0.20	76			38		228
BLAIRMORE SOLN	1 385	0.65	0.45	495			38		
BLAIRMORE ASSOC	5	0.70	0.20	3			38		29
BLAIRMORE ASSOC	11	0.70	0.20	6			38		34
BLAIRMORE ASSOC	7	0.70	0.20	4			38		30
BLAIRMORE ASSOC	72	0.70	0.20	40			38		139
BLAIRMORE TOTAL	1 615	0.65	0.40	624	172	452	38	17 004	
OTHER	739			460	116	344		12 003	
TOTAL-BELLSHILL LAKE	2 354			1 084	288	796		29 007	
BENJAMIN 028-07W5 RUNDLE A	1 809	0.65	0.15	1 000		1 000	39	38 940	1 003
RUNDLE B	1 865	0.65	0.15	1 030	333	697	39	27 141	881
RUNDLE C	1 684	0.65	0.15	931	162	769	38	29 153	440
TOTAL-BENJAMIN	5 358			2 961	495	2 466		95 234	
BENTLEY 058-07W4 TOTAL-BENTLEY	50			31		31		1 152	
BENTON 028-03W4 TOTAL-BENTON	756			519	97	422		15 752	
BERLAND RIVER 059-23W5 LEDUC A	3 852	0.90	0.25	2 600	1 157	1 443	38	54 444	280
TOTAL-BERLAND RIVER	3 852			2 600	1 157	1 443		54 444	
BERLAND RIVER WEST 058-25W5 WAB 10-058-25	663	0.80	0.25	398		398	38	14 925	440
WAB 26-058-25	422	0.80	0.05	321		321	39	12 410	200
OTHER	100			68		68		2 738	
TOTAL-BERLAND RIVER WEST	1 185			787		787		30 073	
BERRY 027-12W4 TOTAL-BERRY	2 782			1 949	513	1 436		53 676	
BERWYN (SA) 082-25W5 TOTAL-BERWYN	31			22		22		819	
BESSIE 062-15W5 TOTAL-BESSIE	37			25		25		982	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.74	0.210	0.60	5 550	33	0.904	0.60	766.1	1917	1982	PART OF VIK POOL NO.2 MATERIAL BALANCE ASSIGNED WELL 07-24-051-19W4M
0.91	0.200	0.65	4 800	26	0.909	0.60	765.3	1952	1984	PART OF VIK POOL NO.2 MATERIAL BALANCE
2.09	0.210	0.60	5 550	33	0.904	0.60	788.3	1917	1989	PART OF VIK POOL NO.2 MATERIAL BALANCE
1.21	0.210	0.60	5 550	33	0.904	0.60	784.9	1953	1982	PART OF VIK POOL NO.2 MATERIAL BALANCE
								1917	1982	CWNGNUL TCPL PART OF VIK POOL NO.2
2.21	0.270	0.45	4 070	22	0.919	0.58	504.6	1965	1983	PANALTA TCPL MATERIAL BALANCE
2.12	0.300	0.65	3 450	22	0.932	0.59	528.2	1963	1982	PRODUCTION DECLINE
1.51	0.312	0.35	3 700	20	0.925	0.57	538.5	1969	1983	PRODUCTION DECLINE
2.12	0.300	0.55	3 860	27	0.928	0.57	550.2	1969	1982	PRODUCTION DECLINE
2.78	0.300	0.55	4 070	20	0.917	0.58	568.9	1969	1982	PRODUCTION DECLINE
								1963	1985	TRITON TCPL
3.09	0.277	0.65	3 130	19	0.939	0.56	518.4	1951	1988	TCPL A&S
7.41	0.188	0.65	14 400	60	0.822	0.66	1 447.8	1951	1981	A&S MATERIAL BALANCE
4.18	0.278	0.70	6 510	30	0.839	0.78	900.8	1956	1989	
						0.78		1956	1989	
1.14	0.278	0.70	6 510	30	0.839	0.78	902.6	1956	1987	
2.32	0.278	0.70	6 510	30	0.839	0.78	899.8	1956	1987	
1.67	0.278	0.70	6 510	30	0.839	0.78	916.4	1956	1987	
3.66	0.278	0.70	6 510	30	0.839	0.78	939.7	1956	1987	
								1956	1987	TCPL KANNGAZ
18.90	0.055	0.75	28 000	92	0.943	0.66	3 336.8	1969	1985	PROGAS PANALTA TOP/BASE TVD
23.40	0.053	0.75	27 400	92	0.938	0.66	3 266.5	1961	1984	PROGAS PANALTA TOP/BASE TVD
36.00	0.060	0.75	28 900	92	0.953	0.67	3 495.0	1978	1984	PROGAS PANALTA TOP/BASE TVD
65.60	0.072	0.90	36 450	121	1.015	0.68	3 762.9	1958	1986	TCPL MATERIAL BALANCE
21.87	0.036	0.80	33 090	127	0.984	0.72	3 724.0	1958	1973	TCPL BER
12.00	0.084	0.85	33 000	104	1.012	0.59	3 618.0	1980	1981	TCPL BER

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BEZANSON (SA) 071-03W6 TOTAL-BEZANSON	265			184		184		7 264	
BIG ARROW 099-05W6 TOTAL-BIG ARROW	99			63		63		2 385	
BIG BEND 066-27W4 GRAND RAPIDS Q	601	0.90	0.05	514	498	16	38	603	437
MCMURRAY H	700	0.75	0.05	499	391	108	37	3 973	1 564
MCMURRAY B		0.65	0.05				38		1 271
MCMURRAY II		0.65	0.05				38		401
WABAMUN F		0.65	0.05				37		128
MCMURRAY B,II & WAB F TOTAL	585	0.65	0.05	361	305	56	38	2 103	
WABAMUN A	655	0.75	0.05	466	276	190	37	7 123	1 799
WABAMUN H	842	0.70	0.10	530	191	339	38	12 865	1 732
OTHER	9 539			6 002	2 781	3 221		120 916	
TOTAL-BIG BEND	12 922			8 372	4 442	3 930		147 583	
BIG COULEE 067-23W4 TOTAL-BIG COULEE	932			596	192	404		15 242	
BIGHORN 043-17W5 TOTAL-BIGHORN	639			425		425		16 537	
BIGORAY 051-08W5 GLAUCONITIC I	1 866	0.65	0.06	1 140	72	1 068	39	41 908	3 718
PEKISK0 A SOLN	335	0.60	0.10	181 ^b			40		
PEKISK0 A ASSOC	1 941	0.75	0.10	1 310 ^b	1 179 ^b	312	40	12 377	5 039
OTHER	4 722			2 534	330	2 204		86 776	
TOTAL-BIGORAY	8 864			5 165	1 581	3 584		141 061	
BIGSTONE 061-22W5 DUNVEGAN A	4 602	0.75	0.05	3 280	802	2 478	40	100 309	4 851
D-3 A	13 810	0.42	0.30	4 060	3 869	191	37	6 998	2 331
OTHER	1 081			677		677		25 707	
TOTAL-BIGSTONE	19 493			8 017	4 671	3 346		133 014	
BILAWCHUK 080-09W6 TOTAL-BILAWCHUK	451			320		320		12 376	
BILBO 065-08W6 FALHER B	513	0.90	0.15	393	32	361	40	14 288	250
OTHER	3 033			2 044	131	1 913		74 001	
TOTAL-BILBO	3 546			2 437	163	2 274		88 289	
BINDLOSS 022-05W4 MILK RIVER A	1 519	0.70	0.05	1 010			36		19 140
MEDICINE HAT A	549	0.70	0.03	372			36		22 725
MEDICINE HAT D	6	0.50	0.03	3			36		380
SE ALTA GAS SYS (MU) TOTAL	2 074	0.70	0.05	1 385	356	1 029	36	37 528	
VIKING A	10 774	0.90	0.01	9 600	7 974	1 626	36	59 186	18 120
BNFF 19-025-03	500	0.80	0.05	380		380	37	14 102	200
OTHER	655			455	143	312		11 008	
TOTAL-BINDLOSS	14 003			11 820	8 473	3 347		121 824	
BIRCH 050-11W4 UPPER MANNVILLE R	476	0.80	0.05	362	162	200	36	7 282	807
CAMROSE B	896	0.90	0.05	766	618	148	37	5 522	4 603
OTHER	2 542			1 696	550	1 146		42 615	
TOTAL-BIRCH	3 914			2 824	1 330	1 494		55 419	
BISON LAKE 095-15W5 TOTAL-BISON LAKE	315			199		199		7 321	
BISTCHO 122-04W6 TOTAL-BISTCHO	242			168		168		6 192	
BITTERN LAKE 046-22W4 GLAUCONITIC A	1 268	0.80	0.05	963	706	257	37	9 401	1 313
ELLERSLIE D	788	0.80	0.05	599	1	598	39	23 053	1 399
OTHER	3 059			1 949	465	1 484		55 640	
TOTAL-BITTERN LAKE	5 115			3 511	1 172	2 339		88 094	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
4.70 3.05 3.10 1.74 6.10	0.250 0.210 0.193 0.206 0.190	0.60 0.65 0.60 0.70 0.70	4 620 4 680 5 000 5 000 4 710	21 30 30 29 36	0.910 0.911 0.907 0.905 0.913	0.56 0.63 0.60 0.60 0.63	600.6 795.4 800.5 799.8 802.9	1967 1967 1968 1968 1976	1981 1987 1987 1989 1983	TCPL PRODUCTION DECLINE TCPL MATERIAL BALANCE PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE
6.31 7.62	0.154 0.164	0.75 0.85	4 990 4 520	37 32	0.916 0.921	0.60 0.59	816.1 755.1	1967 1976	1988 1988	TCPL TCPL
5.26 5.27	0.123 0.072	0.55 0.65	13 510 15 370	58 63	0.823 0.833	0.66 0.67	1 827.1 1 886.7	1958 1962	1989 1989	DEVNIC A&S PART OF GLAUC POOL NO.5 A&S CONCURRENT PRODUCTION A&S CONCURRENT PRODUCTION
5.51 17.47	0.154 0.080	0.55 0.85	17 930 32 650	60 116	0.802 0.972	0.68 0.71	1 973.7 3 382.5	1959 1960	1986 1986	PROGAS AMOCO A&S PSR A&S PRODUCTION DECLINE GAS CYCLING SCHEME
7.60	0.120	0.85	35 760	103	1.022	0.64	2 552.0	1982	1989	PANALTA CDHUNT DEEP CUT SL
3.13 0.56 0.40	0.154 0.170 0.139	0.55 0.55 0.60	3 140 4 310 4 450	16 17 19	0.937 0.916 0.916	0.56 0.56 0.56	355.7 487.7 487.7	1910 1904 1973	1987 1987 1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE PART OF MED HAT POOL NO.1 PART OF MED HAT POOL NO.4
3.43 22.50	0.294 0.169	0.55 0.65	6 830 9 460	27 35	0.881 0.863	0.59 0.57	685.5 987.8	1952 1987	1984 1988	PANALTA TCPL TCPL MATERIAL BALANCE PROGAS
5.22 3.06	0.289 0.101	0.75 0.65	5 040 4 760	28 27	0.914 0.914	0.58 0.57	656.5 713.5	1978 1961	1984 1987	TCPL TCPL MATERIAL BALANCE
8.82 4.31	0.204 0.185	0.85 0.80	9 130 8 730	38 50	0.858 0.870	0.63 0.66	1 222.8 1 220.8	1956 1975	1989 1989	CWNGNUL PRODUCTION DECLINE CWNGNUL ICG

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BLACK 110-09W6 TOTAL-BLACK	1 296			893		893		33 807	
BLACK BUTTE 001-08W4 BASAL COLORADO A	322	0.80	0.05	245			37		1 016
BASAL COLORADO B	300	0.85	0.05	242			37		838
BASAL COLORADO A&B TOTAL	622	0.80	0.05	487	387	100	37	3 714	
SUNBURST-SWIFT A	469	0.80	0.04	360	355	5	38	190	824
SAWTOOTH A	900	0.82	0.05	701	626	75	37	2 801	1 660
RUNDLE A	1 105	0.80	0.10	796	435	361	37	13 440	1 230
OTHER	617			425	214	211		7 839	
TOTAL-BLACK BUTTE	3 713			2 769	2 017	752		27 984	
BLACK DIAMOND 020-02W5 TOTAL-BLACK DIAMOND	300			41	41				
BLACKFOOT 022-23W4 TOTAL-BLACKFOOT	633			424	154	270		9 816	
BLACKSTONE 045-16W5 CARD SD 26-044-16	435	0.85	0.05	352		352	39	13 584	200
BEAVERHILL LAKE A	22 500	0.80	0.25	13 500	1 771	11 729	37	436 788	3 454
OTHER	395			261		261		10 759	
TOTAL-BLACKSTONE	23 330			14 113	1 771	12 342		461 131	
BLANSKY (SA) 001-02W4 TOTAL-BLANSKY	64			48		48		1 749	
BLOOD 006-22W4 BOW ISLAND A	1 020	0.80	0.05	775	276	499	36	18 189	2 056
OTHER	52			29	9	20		730	
TOTAL-BLOOD	1 072			804	285	519		18 919	
BLOOR 033-12W4 TOTAL-BLOOR	232			153	26	127		4 821	
BLUEBERRY 082-07W6 BELL 16-082-07	451	0.90	0.10	365		365	39	14 122	200
KISKATINAW A	1 139	0.80	0.05	865	512	353	38	13 432	200
OTHER	227			152		152		5 849	
TOTAL-BLUEBERRY	1 817			1 382	512	870		33 403	
BLUERIDGE 059-10W5 JURASSIC B	2 632	0.76	0.10	1 800	1 241	559	40	22 081	3 943
JURASSIC F	748	0.60	0.10	404	276	128	39	4 966	400
PEKISKO A SOLN	79	0.60	0.10	420			38		
PEKISKO A ASSOC	1 139	0.90	0.10	923 ^b	473 ^b	492	38	18 883	1 637
OTHER	1 303			847	38	809		31 262	
TOTAL-BLUERIDGE	5 901			4 016	2 028	1 988		77 192	
BOGGY LAKE (SA) 030-06W5 TOTAL-BOGGY LAKE	53			36		36		1 377	
BOHN (SA) 081-07W4 TOTAL-BOHN	100			49		49		1 820	
BOLLOQUE 064-26W4 LOWER MANNVILLE A	894	0.70	0.05	595	549	46	38	1 742	2 631
LOWER MANNVILLE B	558	0.80	0.05	424	120	304	38	11 458	1 161
OTHER	2 121			1 330	167	1 163		43 136	
TOTAL-BOLLOQUE	3 573			2 349	836	1 513		56 336	
BOLTAN (SA) 060-02W6 TOTAL-BOLTAN	184			126		126		5 078	
BONANZA 081-12W6 HALFWAY A	447	0.85	0.15	323	15	308	39	11 883	1 222
OTHER	1 336			623	21	602		22 508	
TOTAL-BONANZA	1 783			946	36	910		34 391	
BONDISS 064-15W4 TOTAL-BONDISS	288			182	65	117		4 361	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
4.00 3.18	0.195 0.231	0.55 0.60	6 300 6 430	24 24	0.885 0.882	0.58 0.57	771.6 788.9	1944 1944 1944	1987 1987 1987	PRODUCTION DECLINE PRODUCTION DECLINE CMG
5.77 2.58 5.98	0.200 0.200 0.100	0.70 0.70 0.80	7 100 8 100 8 260	30 33 33	0.848 0.871 0.867	0.65 0.60 0.62	900.8 990.8 997.0	1944 1944 1944	1984 1981 1979	CMG PRODUCTION DECLINE CMG PRODUCTION DECLINE CMG MATERIAL BALANCE
16.50 23.51	0.123 0.109	0.55 0.90	21 740 45 200	81 140	0.896 1.102	0.63 0.72	2 777.8 4 736.0	1979 1979	1980 1989	TCPL CNG
10.33	0.157	0.75	3 400	32	0.937	0.63	1 018.4	1978	1989	PANALTA MATERIAL BALANCE
10.49 9.87	0.200 0.130	0.75 0.70	14 480 15 380	63 64	0.855 0.846	0.61 0.65	1 444.4 1 581.9	1973 1973	1977 1989	TCPL BER TCPL MATERIAL BALANCE
4.11 9.75 6.79	0.190 0.179 0.127	0.65 0.55 0.65	12 450 10 490 12 550	65 66 64	0.853 0.867 0.853	0.65 0.65 0.65	1 719.7 1 646.0 1 731.4	1967 1970 1968	1989 1985 1988	TCPL PRODUCTION DECLINE TCPL MATERIAL BALANCE TCPL CONCURRENT PRODUCTION, OIL DEPLETED TCPL CONCURRENT PRODUCTION, OIL DEPLETED
3.20 3.77	0.228 0.289	0.65 0.80	5 450 5 380	29 33	0.900 0.907	0.58 0.58	868.6 863.9	1965 1973	1983 1980	TCPL MATERIAL BALANCE
2.45	0.122	0.75	14 520	60	0.760	0.83	1 482.7	1973	1984	PANALTA

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BONNIE GLEN 047-27W4 GLAUCONITIC A	1 667	0.70	0.10	1 050	403	647	39	25 459	3 213
D-3 A SOLN	17 625	0.80	0.35	9 165b			41		
D-3 A ASSOC	14 103	0.90	0.25	9 520b	6 123b	12 562	41	513 283	1 299
OTHER	1 402			940	362	578		22 862	
TOTAL-BONNIE GLEN	34 797			20 675	6 888	13 787		561 604	
BONNYVILLE 060-05W4 TOTAL-BONNYVILLE	960			628	476	152		5 657	
BORDER 042-05W4 TOTAL-BORDER	65			40		40		1 421	
BORRADAILE 051-05W4 TOTAL-BORRADAILE	67			44		44		1 613	
BOTHA 098-05W6 DEBOLT A	446	0.85	0.05	360		360	37	13 176	3 771
OTHER	207			135		135		5 005	
TOTAL-BOTHA	653			495		495		18 181	
BOTTREL 028-05W5 TOTAL-BOTTREL	376			263	1	262		10 757	
BOUCHER 079-04W6 TOTAL-BOUCHER	159			108		108		4 130	
BOUNDARY LAKE SOUTH 084-12W6 TRIASSIC E ASSOC	123	0.80	0.10	88			40		481
TRIASSIC E SOLN	1 289	0.45	0.10	522			40		
TRIASSIC E ASSOC	80	0.80	0.10	58			40		191
TRIASSIC E TOTAL	1 492	0.50	0.10	668		668	40	26 874	
TRIASSIC G	950	0.80	0.10	684	568	116	40	4 584	3 282
KISKATINAW E	1 020	0.85	0.05	824	820	4	38	153	896
GOLATA B	1 169	0.95	0.10	1 000	828	172	39	6 667	400
KISKATINAW B	107	0.75	0.05	76			38		200
GOLATA A	455	0.85	0.05	368			38		440
KISKAT B & GOLATA A TOTAL	562	0.85	0.05	444	393	51	38	1 930	
OTHER	1 839			1 089	178	911		35 692	
TOTAL-BOUNDARY LAKE SOUTH	7 032			4 709	2 787	1 922		75 900	
BOUVIER 070-24W4 WABAMUN C	516	0.65	0.05	318	53	265	37	9 919	1 056
OTHER	430			260	94	166		6 236	
TOTAL-BOUVIER	946			578	147	431		16 155	
BOW ISLAND 011-11W4 MILK RIVER A	101	0.70	0.05	67			36		2 112
MEDICINE HAT C	24	0.50	0.03	12			36		935
SECOND WHITE SPECKS A	1 165	0.75	0.05	830			36		17 119
SECOND WHITE SPECKS C	9	0.80	0.05	7			36		200
SE ALTA GAS SYS (MU) TOTAL	1 299	0.75	0.05	916	3	913	36	33 297	
BOW ISLAND	2 667	0.75	0.05	1 900	1 697	203	38	7 651	38 702
OTHER	752			549	25	524		18 819	
TOTAL-BOW ISLAND	4 718			3 365	1 725	1 640		59 767	
BOWDEN (SA) 033-29W4 TOTAL-BOWDEN	51			30		30		1 183	
BOYER 103-22W5 BLUESKY A	18 422	0.60	0.05	10 500			37		130 779
BLUESKY A	739	0.60	0.05	421			37		11 534
BLUESKY A	147	0.60	0.05	84			37		4 410
BLUESKY A	34	0.60	0.05	19			37		1 114
BLUESKY A	27	0.65	0.05	17			37		200
BLUESKY A	18	0.65	0.05	11			37		200

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
6.36	0.136	0.50	11 940	64	0.840	0.67	1 556.8	1954	1989	PROGAS PANALTA ESSO DIRECT POOD METHON SOQUIP KANNGAZ PART OF GLAUC POOL NO.3 ESSO VECTOR SOQUIP CONC PROD. GAS CYCLING. DP CT SL ESSO VECTOR SOQUIP CONC PROD. GAS CYCLING. DP CT SL
						0.79		1951	1988	
66.06	0.104	0.94	16 820	80	0.806	0.79	2 042.2	1951	1988	
3.23	0.174	0.40	5 220	35	0.916	0.58	767.5	1975	1982	NONCOMMERCIAL OIL
1.30	0.158	0.90	12 550	49	0.802	0.65	1 321.8	1964	1989	WCST ESSO PANALTA ESSO ESSO MATERIAL BALANCE ESSO PRODUCTION DECLINE ESSO
						0.65		1964	1989	
1.40	0.228	0.95	12 550	49	0.802	0.65	1 309.3	1964	1988	
								1964	1989	
2.73	0.125	0.75	11 140	60	0.841	0.65	1 308.1	1967	1982	
5.07	0.143	0.80	16 060	77	0.885	0.59	1 894.5	1964	1976	
6.17	0.144	0.80	16 340	63	0.831	0.66	1 858.1	1964	1989	
2.44	0.170	0.80	16 230	60	0.861	0.59	1 845.0	1958	1980	
5.79	0.140	0.80	16 350	63	0.868	0.59	1 859.3	1958	1980	
								1958	1980	
9.04	0.200	0.75	3 590	30	0.935	0.58	650.4	1977	1982	TCPL
1.88	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE PART OF MED HAT POOL NO.3 PART OF 2WS POOL NO.1 PROGAS TCPL PROGAS CWNGNUL ATCOR TCPL PRODUCTION DECLINE
0.65	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	
0.88	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	
1.00	0.120	0.65	5 270	20	0.901	0.58	612.5	1980	1988	
								1910	1988	
1.19	0.182	0.55	5 330	27	0.893	0.61	646.3	1909	1987	
6.40	0.210	0.40	2 550	19	0.948	0.57	335.3	1973	1985	PART OF BLSKY POOL NO.1 PART OF BLSKY POOL NO.1 PART OF BLSKY POOL NO.1 PART OF BLSKY POOL NO.1 PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-29-100-23W5M PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-31-101-24W5M
2.91	0.210	0.40	2 550	19	0.948	0.57	335.3	1973	1988	
1.51	0.210	0.40	2 550	19	0.948	0.57	335.3	1973	1985	
1.38	0.210	0.40	2 550	19	0.948	0.57	335.3	1973	1985	
6.20	0.207	0.40	2 560	21	0.949	0.57	389.3	1973	1988	
3.40	0.190	0.50	2 700	21	0.946	0.57	379.0	1973	1988	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BOYER 103-22W5 (CONTINUED)									
BLUESKY A	11	0.65	0.05	7			37		200
BLUESKY A	11	0.65	0.05	7			37		200
BLUESKY A	8	0.60	0.05	5			37		200
BLUESKY A	15	0.65	0.05	10			37		200
BLUESKY A	7	0.65	0.05	5			37		200
BLUESKY A	16	0.65	0.05	10			37		200
BLUESKY A	15	0.65	0.05	10			37		200
BLUESKY A	37	0.60	0.05	21			37		200
BLUESKY A	40	0.65	0.05	25			37		200
BLUESKY A	36	0.60	0.05	21			37		200
BLUESKY A	43	0.60	0.05	25			37		200
BLUESKY A	34	0.65	0.05	21			37		200
BLUESKY A	23	0.65	0.05	14			37		200
GETHING A	213	0.70	0.05	142			38		3 644
BLUESKY A & GETHING A TOTAL	19 896	0.60	0.05	11 375	2 785	8 590	37	319 806	
OTHER	381			229	116	113		4 171	
TOTAL-BOYER	20 277			11 604	2 901	8 703		323 977	
BRAEBURN 077-10W6									
BALDONNEL A	606	0.80	0.10	437	406	31	38	1 186	2 074
OTHER	943			358	104	254		9 844	
TOTAL-BRAEBURN	1 549			795	510	285		11 030	
BRANCH (SA) 002-20W4									
TOTAL-BRANCH	7			4		4		131	
BRANT 018-25W4									
TOTAL-BRANT	329			158	56	102		3 687	
BRAZEAU RIVER 045-13W5									
CARDIUM C SOLN	733	0.65	0.25	357	179	178	41	7 343	
LOWER MANNVILLE E	837	0.85	0.15	604			42		1 080
LOWER MANNVILLE G	176	0.80	0.15	120			42		150
L MANNVILLE E & G TOTAL	1 013	0.85	0.15	724	17	707	42	29 864	
ROCK CREEK D	995	0.90	0.25	672	178	494	41	20 234	1 152
NORD 07-047-12	558	0.85	0.10	427		427	39	16 854	256
ELKTON-SHUNDA A		0.75	0.10				39		5 883
ELKTON-SHUNDA A		0.75	0.10				39		9 428
ELKTON-SHUNDA A TOTAL	13 037	0.75	0.10	8 800	6 072	2 728	39	106 283	
ELKTON-SHUNDA B		0.85	0.10				39		26 045
ELKTON-SHUNDA B		0.85	0.10				39		42 772
ELKTON-SHUNDA B		0.85	0.10				39		200
ELKTON-SHUNDA B		0.85	0.10				39		11 056
ELKTON-SHUNDA B		0.85	0.10				39		26 958
ELKTON-SHUNDA B TOTAL	36 601	0.85	0.10	28 000	19 873	8 127	39	316 140	
NISKU A SOLN	943	0.75	0.35	460b			41		
NISKU A ASSOC		0.85	0.10		-617b	1 077	41	44 114	
NISKU E SOLN	814	0.65	0.35	344b			41		
NISKU E ASSOC		0.85	0.10		-140b	484	41	20 033	
NISKU F	992	0.80	0.30	556	29	527	42	22 097	104
NISKU J	707	C	C	481	23	458	41	18 783	96
NISKU K	812	C	C	429	134	295	41	12 098	255
NISKU M	1 489	C	C	823	89	734	41	30 358	150
NISKU P	9 408	C	C	3 730	108	3 622	40	144 880	3 761
NISKU S	1 665	C	C	756	194	562	41	23 211	251
NIS 36-047-15	976	0.90	0.30	615		615	41	25 147	200
OTHER	10 927			6 377	629	5 748		230 089	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.00	0.160	0.40	2 750	22	0.946	0.57	429.6	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-24-105-01W5M
2.44	0.210	0.40	2 550	19	0.948	0.57	338.1	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-16-102-23W5M
1.80	0.210	0.40	2 550	19	0.948	0.57	227.1	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 02/7-11-104-21W5M
3.35	0.210	0.40	2 550	16	0.946	0.57	228.2	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-07-105-20W5M
1.52	0.210	0.40	2 550	16	0.946	0.57	233.1	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-10-105-21W5M
3.96	0.210	0.40	2 300	16	0.951	0.57	231.9	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-21-105-21W5M
3.70	0.180	0.50	2 230	16	0.953	0.57	229.1	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-22-105-21W5M
8.20	0.210	0.40	2 600	16	0.945	0.57	266.9	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-09-106-23W5M
9.90	0.200	0.40	2 420	16	0.949	0.57	266.4	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-28-106-23W5M
8.90	0.192	0.40	2 550	16	0.946	0.57	273.3	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 06-13-106-24W5M
9.00	0.230	0.40	2 500	16	0.947	0.57	298.5	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-28-106-01W6M
5.86	0.210	0.50	2 640	14	0.943	0.57	220.7	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 02-06-106-20W5M
4.01	0.210	0.50	2 640	14	0.943	0.57	217.9	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-21-106-20W5M
1.90	0.230	0.50	2 620	21	0.947	0.57	386.3	1976 1973	1980 1985	PART OF BLSKY POOL NO.1 PANALTA TCPL A&S PART OF BLSKY POOL NO.1
2.45	0.121	0.70	14 820	70	0.873	0.63	1 726.1	1954	1988	
2.10	0.156	0.90	32 610	97	0.954	0.71 0.78	2 927.0	1973 1975	1987 1978	ESSO TCPL PCI DEEP CUT SL
1.80	0.250	0.90	34 080	79	0.953	0.84	2 963.6	1975	1988	
4.21	0.132	0.60	30 900	93	0.927	0.85	3 116.9	1975 1973	1989 1989	ESSO TCPL CWNGNUL PCI DEEP CUT SL
28.60	0.050	0.90	20 630	113	0.898	0.73	2 742.0	1979	1982	
5.59	0.114	0.85	26 580	99	0.939	0.68	2 944.3	1965	1985	MATERIAL BALANCE
3.85	0.070	0.85	26 580	99	0.942	0.66	2 925.5	1965	1986	MATERIAL BALANCE
3.91	0.099	0.80	26 800	95	0.940	0.67	3 023.9	1965	1984	PROGAS A&S TCPL
2.72	0.079	0.75	26 800	95	0.937	0.68	2 947.0	1959	1985	MATERIAL BALANCE
1.51	0.079	0.75	26 800	95	0.937	0.69	3 048.9	1959	1989	MATERIAL BALANCE
0.63	0.051	0.60	26 800	95	0.938	0.67	2 830.0	1959	1985	MATERIAL BALANCE ASSIGNED WELL 06-03-045-13W5M
1.46	0.076	0.75	26 800	95	0.938	0.67	2 890.0	1959	1985	MATERIAL BALANCE
						0.75		1977	1988	PROGAS ESSO TCPL A&S
						0.75		1977	1988	LEAN GAS BREAKTHROUGH
						0.75		1978	1988	LEAN GAS BREAKTHROUGH
						0.75		1978	1988	LEAN GAS BREAKTHROUGH
28.61	0.096	0.90	46 300	107	1.203	1.19	3 355.1	1978	1988	LEAN GAS BREAKTHROUGH ESSO TCPL MATERIAL BALANCE GAS CYCLING SCHEME
21.80	0.138	0.90	38 390	108	1.053	1.21	3 361.4	1979	1984	TCPL GAS CYCLING SCHEME
26.07	0.054	0.80	70 730	117	1.678	0.70	3 844.4	1978	1986	TCPL GAS CYCLING SCHEME
29.76	0.100	0.85	50 590	104	1.259	0.79	3 271.8	1979	1987	TCPL GAS CYCLING SCHEME
16.23	0.056	0.85	35 780	99	0.935	1.20	3 137.3	1977	1987	ESSO TCPL A&S GAS CYCLING SCHEME
24.30	0.102	0.90	37 880	110	1.035	1.08	3 752.6	1979	1989	TCPL GAS CYCLING SCHEME
24.80	0.070	0.85	54 510	114	1.211	0.92	3 669.7	1980	1989	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BRAZEAU RIVER 045-13W5 (CONTINUED)									
TOTAL-BRAZEAU RIVER	81 670			53 551	26 768	26 783		1 067 528	
BREMNER 078-04W6									
TOTAL-BREMNER	31			22		22		824	
BRIDGE 057-07W5									
TOTAL-BRIDGE	196			132	45	87		3 424	
BRIGHT 051-02W5									
TOTAL-BRIGHT	203			143		143		5 672	
BRIKER 046-03W4									
TOTAL-BRIKER	86			61		61		2 164	
BRINTNELL (SA) 081-23W4									
TOTAL-BRINTNELL	41			24		24		885	
BRITTS (SA) 096-17W5									
TOTAL-BRITTS	24			14		14		522	
BRONSON 057-17W5									
TOTAL-BRONSON	561			383		383		14 912	
BROOKS 018-14W4									
MILK RIVER A	444	0.70	0.05	295			37		3 498
MEDICINE HAT A	64	0.70	0.03	44			36		2 313
MEDICINE HAT C	54	0.50	0.03	26			36		1 487
MEDICINE HAT D	8	0.50	0.03	4			36		344
SE ALTA GAS SYS (MU) TOTAL	570	0.70	0.05	369	248	121	37	4 467	
TOTAL-BROOKS	570			369	248	121		4 467	
BROWN CREEK (SA) 044-17W5									
TV 044-17	423	0.85	0.05	342		342	38	13 006	890
OTHER	181			122		122		4 762	
TOTAL-BROWN CREEK	604			464		464		17 768	
BROWNVILLE 081-26W5									
TOTAL-BROWNVILLE	142			87		87		3 221	
BROXBURN 009-21W4									
TOTAL-BROXBURN	50			29	26	3		103	
BRUCE 047-16W4									
BELLY RIVER J	510	0.75	0.05	364	342	22	37	813	3 392
UPPER VIKING A		0.75	0.03				36		83 844
MIDDLE VIKING A		0.75	0.03				37		
MIDDLE VIKING B	385	0.55	0.03	206			36		15 454
UPPER VIKING F		0.60	0.05				38		200
UPPER MANNVILLE Z	337	0.65	0.05	208			38		670
U VIK A&F & M VIK A&B TOTAL	5 375	0.75	0.05	3 910	2 591	1 319	37	48 856	
UPPER MANNVILLE ZZZ	455	0.70	0.05	303	219	84	37	3 075	490
UPPER MANNVILLE A2A	523	0.65	0.05	323	267	56	38	2 104	656
OTHER	10 948			7 061	2 597	4 464		165 661	
TOTAL-BRUCE	17 811			11 961	6 016	5 945		220 509	
BUFF COULEE 046-07W4									
COLONY A	523	0.85	0.05	423	217	206	37	7 546	3 546
COLONY C	612	0.70	0.05	407	263	144	36	5 219	150
OTHER	518			368	146	222		8 077	
TOTAL-BUFF COULEE	1 653			1 198	626	572		20 842	
BUFFALO LAKE 039-21W4									
TOTAL-BUFFALO LAKE	455			197	51	146		5 751	
BUICK 090-02W6									
TOTAL-BUICK	76			50		50		1 846	
BURDETT 009-10W4									
TOTAL-BURDETT	175			124		124		4 589	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
5.01	0.154	0.55	3 140	16	0.935	0.57	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
0.64	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1989	PART OF MED HAT POOL NO.1
0.92	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.3
0.59	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.4
								1904	1987	PANALTA CWNGNUL TCPL
4.15	0.057	0.85	30 800	101	0.990	0.61	3 364.5	1960	1989	BER
3.14	0.284	0.60	2 740	20	0.947	0.56	371.6	1970	1988	TCPL A&S KANNGAZ PART OF BR POOL NO.2
1.19	0.180	0.70	5 650	26	0.895	0.61	714.5	1917	1989	PART OF VIK POOL NO.2 MATERIAL BALANCE
	0.180	0.70	5 650	26	0.895	0.59	789.4	1917	1985	PART OF VIK POOL NO.2 MATERIAL BALANCE
1.15	0.212	0.40	5 650	27	0.898	0.60	745.4	1952	1985	PART OF VIK POOL NO.2 PRODUCTION DECLINE
1.24	0.230	0.55	3 960	25	0.921	0.59	735.5	1976	1976	PART OF VIK POOL NO.2 MATERIAL BALANCE
2.43	0.255	0.75	6 070	27	0.887	0.59	873.4	1975	1988	PART OF VIK POOL NO.2 PRODUCTION DECLINE
								1917	1988	PROGAS PANALTA CWNGNUL RENENER TCPL A&S
1.44	0.241	0.65	6 170	29	0.891	0.60	884.4	1977	1986	KANNGAZ PART OF VIK POOL NO.2
3.54	0.231	0.80	6 140	28	0.889	0.58	871.5	1976	1987	TCPL MATERIAL BALANCE
										TCPL PRODUCTION DECLINE
2.12	0.285	0.60	3 980	27	0.927	0.59	596.4	1976	1987	PANALTA CWNGNUL
11.58	0.280	0.90	4 250	21	0.920	0.58	593.7	1977	1989	CWNGNUL MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BURNT TIMBER 031-09W5									
RUNDLE A	20 781	0.80	0.20	13 300			39		4 449
RUNDLE B	2 484	0.80	0.20	1 590			39		2 204
RUNDLE A & B TOTAL	23 265	0.80	0.20	14 890	9 195	5 695	39	221 706	
WABAMUN A	4 720	0.75	0.50	1 770	888	882	38	33 507	2 992
TOTAL-BURNT TIMBER	27 985			16 660	10 083	6 577		255 213	
BYEMOOR 034-19W4									
TOTAL-BYEMOOR	190			122	3	119		4 358	
CACHE 058-12W4									
VIKING A	2 355	0.40	0.05	895	27	868	37	32 194	34 666
COLONY D	526	0.80	0.05	400	160	240	38	9 012	2 132
COLONY G	471	0.80	0.05	358	262	96	37	3 597	593
COLONY P	410	0.80	0.05	312	96	216	37	8 003	1 081
COLONY B		0.75	0.05				35		1 530
COLONY C		0.75	0.05				35		1 221
COLONY S		0.75	0.05				38		200
COLONY B, C & S TOTAL	541	0.75	0.05	386	313	73	36	2 619	
COLONY BB	71	0.65	0.05	44			38		745
COLONY EE	112	0.70	0.05	74			38		1 262
COLONY HH	330	0.80	0.05	251			38		2 608
COLONY BB, EE & HH TOTAL	513	0.75	0.05	369	237	132	38	4 999	
COLONY DD		0.75	0.05				37		880
COLONY FF		0.75	0.05				38		750
COLONY DD & FF TOTAL	486	0.75	0.05	346	268	78	38	2 932	
COLONY E	328	0.75	0.05	234			38		2 744
COLONY RR	9	0.70	0.05	6			38		150
COLONY F	103	0.70	0.05	68			37		903
COLONY E, F & RR TOTAL	440	0.75	0.05	308	132	176	38	6 602	
CLEARWATER B	1 247	0.70	0.05	829	780	49	37	1 818	3 843
OTHER	4 751			3 147	1 679	1 468		54 830	
TOTAL-CACHE	11 740			7 350	3 954	3 396		126 606	
CADOTTE 086-19W5									
TOTAL-CADOTTE	488			336	168	168		6 183	
CALAIS 070-25W5									
TOTAL-CALAIS	411			259	44	215		7 865	
CALLING LAKE 071-18W4									
D-2 B	2 372	0.75	0.05	1 690	1 647	43	37	1 587	7 421
D-2 C	610	0.80	0.05	464	46	418	37	15 395	3 867
OTHER	697			448	87	361		13 423	
TOTAL-CALLING LAKE	3 679			2 602	1 780	822		30 405	
CALLING LAKE SOUTH 070-22W4									
TOTAL-CALLING LAKE SOUTH	565			350	61	289		10 720	
CALLING LAKE WEST 071-20W4									
UPPER MANNVILLE A	538	0.70	0.05	358	179	179	38	6 721	3 361
OTHER	860			541	132	409		15 142	
TOTAL-CALLING LAKE WEST	1 398			899	311	588		21 863	
CAMPBELL-NAMAO 054-25W4									
NAMAO BLAIRMORE E SOLN	121	0.65	0.10	71b			38		
NAMAO BLAIRMORE E ASSOC	848	0.90	0.10	687b	489b	269	38	10 335	704
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				38		161
CAMPBELL BLAIRMORE A SOLN	117	0.65	0.10	68b			38		
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				38		335
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				39		49
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				39		207
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				39		80
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				36		50
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				36		79
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				38		36
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				38		34
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				36		52
CAMPBELL BLAIRMORE A TOTAL	1 312	0.80	0.10	928b	711b	217	38	8 229	
BLAIRMORE J ASSOC		0.65	0.10				38		383
BLAIRMORE J SOLN	48	0.65	0.25	23b			38		
BLAIRMORE J ASSOC		0.65	0.10				38		64

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
31.61	0.073	0.88	26 610	94	0.916	0.71	3 229.6	1959	1988	TOP/BASE TVD
9.27	0.069	0.80	25 860	100	0.895	0.75	3 339.5	1959	1988	TOP/BASE TVD
								1959	1988	TCPL
13.39	0.055	0.80	31 720	116	0.867	0.88	3 748.7	1976	1989	TCPL MATERIAL BALANCE TOP/BASE TVD
1.04	0.283	0.55	4 000	21	0.922	0.57	434.3	1949	1988	PANALTA MIP TCPL PART OF WIK POOL NO. 6
5.12	0.230	0.55	3 650	21	0.927	0.57	477.6	1952	1977	PANALTA CWNGNUL MIP TCPL SLUSH OIL
2.99	0.246	0.60	3 390	22	0.934	0.57	491.9	1965	1985	MIP TCPL MATERIAL BALANCE
4.86	0.283	0.75	3 520	19	0.932	0.56	498.3	1977	1981	PANALTA MIP TCPL
1.30	0.277	0.70	3 790	19	0.928	0.59	484.0	1971	1989	MATERIAL BALANCE
1.62	0.290	0.65	3 850	21	0.929	0.59	488.5	1971	1989	MATERIAL BALANCE
1.82	0.250	0.60	3 910	18	0.921	0.56	489.8	1971	1989	MATERIAL BALANCE
								1971	1989	PANALTA MIP TCPL
1.46	0.272	0.70	3 320	21	0.934	0.57	480.4	1977	1981	
1.33	0.270	0.60	3 920	21	0.920	0.58	485.4	1973	1982	
1.66	0.294	0.65	3 800	21	0.922	0.58	481.4	1971	1981	
								1971	1982	PANALTA MIP TCPL
1.33	0.290	0.60	4 220	21	0.918	0.57	483.0	1958	1985	MATERIAL BALANCE
1.42	0.278	0.70	4 270	21	0.913	0.58	476.9	1958	1981	MATERIAL BALANCE
								1958	1982	MIP
1.54	0.304	0.70	3 510	21	0.931	0.57	492.6	1973	1986	
1.50	0.230	0.50	3 370	27	0.938	0.57	509.6	1978	1986	
1.75	0.272	0.65	3 570	22	0.932	0.56	480.6	1973	1986	
								1973	1986	PANALTA MIP
2.33	0.313	0.65	3 850	21	0.927	0.56	573.1	1973	1986	PANALTA MIP TCPL PRODUCTION DECLINE
9.40	0.055	0.55	2 450	19	0.951	0.57	464.0	1964	1986	MATERIAL BALANCE
7.77	0.120	0.65	2 520	17	0.949	0.57	473.2	1978	1986	PANALTA BVI KANNGAZ TCPL
3.20	0.317	0.55	2 790	20	0.944	0.57	424.8	1970	1977	PANALTA
9.11	0.192	0.80	8 380	46	0.868	0.65		1951	1982	TCPL GPP
1.67	0.150	0.50	8 200	38	0.844	0.66	1 105.6	1951	1982	TCPL GPP
							1 116.7	1949	1985	PRODUCTION DECLINE CONCURRENT PRODUCTION
								1949	1985	PRODUCTION DECLINE CONCURRENT PRODUCTION
1.65	0.150	0.50	8 200	38	0.844	0.66	1 119.7	1949	1986	PRODUCTION DECLINE
2.86	0.200	0.50	8 020	36	0.816	0.70	1 128.2	1949	1986	PRODUCTION DECLINE
3.41	0.200	0.50	7 350	36	0.829	0.70	1 128.6	1949	1986	PRODUCTION DECLINE
2.06	0.210	0.60	8 020	36	0.816	0.70	1 125.4	1949	1986	PRODUCTION DECLINE
1.46	0.200	0.50	7 060	36	0.867	0.67	1 131.9	1949	1986	PRODUCTION DECLINE
1.09	0.200	0.50	8 370	37	0.849	0.67	1 132.4	1949	1986	PRODUCTION DECLINE
1.81	0.190	0.50	8 370	37	0.840	0.66	1 137.0	1949	1986	PRODUCTION DECLINE
1.76	0.190	0.50	8 370	37	0.840	0.66	1 137.1	1949	1986	PRODUCTION DECLINE
2.29	0.200	0.50	8 370	37	0.849	0.67	1 131.2	1949	1988	PRODUCTION DECLINE
								1949	1986	DEVNIG TCPL CONCURRENT PRODUCTION
5.50	0.226	0.75	7 950	36	0.865	0.64	1 138.1	1976	1988	PRODUCTION DECLINE CONCURRENT PRODUCTION
						0.64		1976	1988	PRODUCTION DECLINE CONCURRENT PRODUCTION
4.00	0.220	0.70	7 970	36	0.865	0.64	1 137.7	1976	1988	PRODUCTION DECLINE ASSIGNED WELL
										05-12-054-25W4M

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CAMPBELL-NAMAO 054-25W4 (CONTINUED)									
BLAIRMORE J TOTAL	908	0.65	0.10	526 ^b	285 ^b	241	38	9 163	
OTHER	1 033			641	204	437		16 655	
TOTAL-CAMPBELL-NAMAO	4 222			2 853	1 689	1 164		44 382	
CANAL 070-23W4									
WABAMUN B	511	0.85	0.05	412	30	382	37	14 111	1 896
OTHER	137			88		88		3 285	
TOTAL-CANAL	648			500	30	470		17 396	
CANARD 057-09W4									
TOTAL-CANARD	1 928			1 174	441	733		27 268	
CAPRON 026-02W4									
TOTAL-CAPRON	132			93	8	85		3 169	
CARBON 029-22W4									
VIKING D	2 021	0.77	0.10	1 400	1 268	132	39	5 203	7 108
GLAUCONITIC		0.80	0.01				39		5 180
GLAUCONITIC		0.80	0.01				39		5 031
GLAUCONITIC TOTAL	5 101	0.80	0.05	4 040	1 606	2 434	39	94 756	
OTHER	1 743			1 086	492	594		22 713	
TOTAL-CARBON	8 865			6 526	3 366	3 160		122 672	
CARDIFF 054-02W5									
ELLERSLIE A	700	0.90	0.10	567	504	63	39	2 472	1 232
OTHER	421			284	1	283		10 949	
TOTAL-CARDIFF	1 121			851	505	346		13 421	
CARIBOU 062-10W5									
TOTAL-CARIBOU	230			163	21	142		5 376	
CAROLINE 035-06W5									
CARDIUM E SOLN	6 346	0.26	0.15	1 403	827	576	42	24 008	
CARDIUM M	606	0.90	0.10	491			41		692
CARDIUM N	88	0.80	0.15	60			41		400
CARDIUM M & N TOTAL	694	0.90	0.10	551	52	499	41	20 359	
VIKING A SOLN	872	0.65	0.15	482 ^b			40		
VIKING A ASSOC	4 589	0.92	0.10	3 800 ^b	3 200 ^b	1 082	40	42 901	17 250
GLC SS 033-05	444	0.75	0.10	300		300	41	12 246	729
GLAUCONITIC C	445	0.85	0.10	340			40		1 040
BASAL MANNVILLE K	850	0.75	0.10	574			41		2 459
BASAL MANNVILLE R	197	0.80	0.10	142			41		822
BASAL MANNVILLE GG	2 718	0.65	0.10	1 590			40		5 317
BASAL MANNVILLE QQ	537	0.75	0.10	363			41		2 142
BASAL MANNVILLE RR	101	0.75	0.10	68			40		961
BASAL MANNVILLE KKK	29	0.75	0.10	20			41		150
BASAL MANNVILLE LLL	42	0.75	0.10	29			41		150
BASAL MANNVILLE MMM	73	0.75	0.10	50			41		150
BASAL MANNVILLE M2M	49	0.75	0.10	33			41		150
BASAL MANNVILLE N2N	96	0.75	0.10	65			41		150
BASAL MANNVILLE O2O	26	0.75	0.10	18			41		150
BASAL MANNVILLE P2P	49	0.75	0.10	33			41		150
BASAL MANNVILLE Q2Q	29	0.75	0.10	20			41		150
BASAL MANNVILLE R2R	57	0.75	0.10	45			40		150
BASAL MANNVILLE B2B	66	0.80	0.15	45			41		150
BASAL MANNVILLE S2S	109	0.75	0.10	74			40		632
BASAL MANNVILLE G3G	120	0.80	0.10	86			41		566
GLAUC & BSL MANN MU 1 TOTAL	5 603	0.70	0.10	3 595	385	3 210	40	128 721	
GLAUCONITIC J	335	0.80	0.10	241			41		300
BASAL MANNVILLE P3P	36	0.80	0.10	26			41		275
BASAL MANNVILLE Q3Q	123	0.80	0.10	88			41		300
BASAL MANNVILLE R3R	10	0.80	0.10	7			41		100
BASAL MANNVILLE S3S	28	0.80	0.10	20			41		150
GLAUC & BSL MANN MU#2 TOTAL	532	0.80	0.10	382	10	372	41	15 185	
BASAL MANNVILLE B	700	0.80	0.10	504	419	85	42	3 605	150
BASAL MANNVILLE G	494	0.85	0.10	378	330	48	41	1 987	150
BASAL MANNVILLE I	544	0.85	0.10	416			40		879
BASAL MANNVILLE XX	112	0.75	0.10	76			40		300
BASAL MANNVILLE YY	22	0.75	0.10	15			40		300
BASAL MANNVILLE AAA	26	0.75	0.10	18			40		150

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
								1976	1988	TCPL CONCURRENT PRODUCTION
5.42	0.210	0.80	2 970	29	0.944	0.61	597.2	1972	1981	TCPL
2.02	0.145	0.60	8 180	41	0.839	0.66	1 300.2	1959	1985	PANALTA CWNGNUL TCPL A&S PART OF VIK POOL NO.3 PRODUCTION DECLINE
4.07	0.199	0.65	10 170	50	0.834	0.66	1 440.6	1955	1987	MATERIAL BALANCE
5.19	0.199	0.65	10 170	50	0.834	0.66	1 451.5	1955	1989	MATERIAL BALANCE
								1955	1989	CWNGNUL TCPL
1.71	0.171	0.70	10 440	41	0.803	0.68	1 321.3	1977	1988	PROGAS PANALTA MATERIAL BALANCE
4.12	0.115	0.75	26 910	77	0.887	0.72	2 503.6	1974	1988	A&S TCPL SECONDARY GAS CAP
1.90	0.056	0.80	27 250	73	0.869	0.76	2 485.0	1987	1989	TOP/BASE TVD
								1988	1989	TOP/BASE TVD
2.02	0.112	0.70	17 260	74	0.842	0.67	2 399.8	1956	1989	PANALTA VECTOR TCPL CONCURRENT PRODUCTION
2.75	0.113	0.80	27 990	83	0.913	0.68	2 767.6	1982	1987	PANALTA VECTOR TCPL CONCURRENT PRODUCTION
2.01	0.119	0.80	24 450	76	0.890	0.65	2 885.4	1981	1987	CDNHUNT AMOCO
1.69	0.108	0.75	28 480	80	0.909	0.70	3 007.9	1980	1987	
1.43	0.087	0.75	28 480	75	0.906	0.68	2 994.3	1980	1985	
2.92	0.097	0.75	27 120	80	0.908	0.67	2 935.2	1969	1987	
1.19	0.108	0.85	26 100	87	0.899	0.69	2 989.9	1981	1987	
0.85	0.078	0.70	26 060	87	0.905	0.68	2 953.0	1981	1987	
0.80	0.130	0.85	26 300	96	0.913	0.69	2 956.5	1984	1985	
1.70	0.100	0.75	26 300	96	0.913	0.69	2 940.7	1984	1985	
1.60	0.162	0.85	26 300	96	0.913	0.69	2 845.9	1982	1985	
1.80	0.100	0.80	26 100	89	0.902	0.69	3 063.9	1983	1987	
3.20	0.110	0.80	26 100	90	0.903	0.69	3 086.9	1983	1987	
1.00	0.095	0.80	26 100	87	0.899	0.69	2 903.0	1981	1987	
2.00	0.095	0.75	26 100	88	0.901	0.69	2 922.6	1981	1987	
1.00	0.100	0.85	26 100	89	0.902	0.69	2 931.0	1981	1987	
2.00	0.120	0.90	23 600	90	0.888	0.69	2 998.5	1984	1987	
2.00	0.100	0.80	31 300	77	0.921	0.79	2 838.0	1982	1985	
0.94	0.094	0.85	26 100	84	0.903	0.68	2 832.7	1961	1987	
0.89	0.110	0.80	31 300	80	0.934	0.72	2 812.6	1982	1987	
								1961	1988	GULF PANALTA DIRECT A&S AMOCO TCPL
5.50	0.105	0.80	27 930	86	0.916	0.68	2 594.5	1988	1989	
0.55	0.125	0.80	27 810	87	0.917	0.69	2 624.1	1988	1989	
1.50	0.135	0.85	27 970	90	0.921	0.68	2 657.1	1988	1988	
0.50	0.100	0.80	27 850	87	0.916	0.68	2 615.8	1988	1989	
1.00	0.090	0.85	27 840	87	0.916	0.68	2 625.4	1988	1989	
8.02	0.150	0.70	29 370	86	0.911	0.75	2 881.3	1958	1989	TCPL DEKALB
26.10	0.110	0.85	19 760	93	0.871	0.67	2 958.8	1981	1989	A&S PRODUCTION DECLINE
2.91	0.126	0.80	24 200	92	0.893	0.69	2 886.8	1980	1985	A&S PRODUCTION DECLINE
2.00	0.110	0.80	24 200	91	0.891	0.69	2 910.1	1980	1985	
0.40	0.108	0.80	24 200	92	0.893	0.70	2 888.0	1980	1985	
1.30	0.082	0.75	24 500	86	0.886	0.69	2 872.3	1980	1985	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CAROLINE 035-06W5 (CONTINUED)									
BMN I,XX,YY & AAA TOTAL	704	0.85	0.10	525	22	503	40	20 180	
BASAL MANNVILLE AA	208	0.90	0.15	159			42		971
BASAL MANNVILLE BBB	87	0.75	0.15	55			42		647
BASAL MANNVILLE CCC	191	0.85	0.15	138			42		614
BSL MANN AA,BBB & CCC TOTAL	486	0.85	0.15	352	83	269	42	11 207	
BASAL MANNVILLE A	2 500	0.80	0.10	1 800			40		5 644
BASAL MANNVILLE L	520	0.80	0.10	374			40		2 363
BASAL MANNVILLE OO	593	0.80	0.10	427			41		1 620
BASAL MANNVILLE PP	38	0.80	0.10	27			41		300
BASAL MANNVILLE SS	166	0.80	0.10	120			40		656
BASAL MANNVILLE ZZ	22	0.80	0.10	16			41		150
BASAL MANNVILLE DDD	42	0.75	0.10	29			41		128
BASAL MANNVILLE JJJ	30	0.80	0.10	22			41		150
BASAL MANNVILLE YYY	116	0.75	0.10	78			41		300
BASAL MANNVILLE TTT ASSOC.	34	0.75	0.15	22			42		150
BASAL MANNVILLE J2J	115	0.75	0.10	77			40		842
BASAL MANNVILLE T2T	346	0.85	0.15	250			42		1 082
BASAL MANNVILLE U2U	27	0.75	0.10	18			41		150
BASAL MANNVILLE V2V	21	0.80	0.10	15			40		150
BASAL MANNVILLE W2W	12	0.75	0.10	8			40		150
BASAL MANNVILLE C3C	31	0.75	0.10	21			40		128
GLAUCONITIC I	109	0.75	0.10	74			41		128
BASAL MANNVILLE B3B	22	0.80	0.10	16			40		128
BASAL MANNVILLE MU #3 TOTAL	4 744	0.80	0.10	3 394	771	2 623	41	106 363	
GLAUCONITIC H	469	0.70	0.10	295			41		638
BASAL MANNVILLE OOO	37	0.75	0.10	25			40		300
BASAL MANNVILLE PPP	30	0.75	0.10	21			40		150
BASAL MANNVILLE QOO	42	0.75	0.10	29			40		150
BASAL MANNVILLE RRR	278	0.80	0.10	200			40		757
BASAL MANNVILLE ZZZ	65	0.80	0.15	44			41		300
BASAL MANNVILLE MU #4 TOTAL	921	0.75	0.10	614	70	544	41	22 135	
BASAL MANNVILLE K2K	197	0.80	0.10	142			40		300
BASAL MANNVILLE L2L	96	0.80	0.10	69			40		300
BASAL MANNVILLE X2X	133	0.75	0.10	90			41		300
BASAL MANNVILLE MU #5 TOTAL	426	0.80	0.10	301	64	237	40	9 532	
BASAL MANNVILLE O	77	0.75	0.10	52			40		300
BASAL MANNVILLE Y	6 278	0.60	0.10	3 390			40		8 685
BASAL MANNVILLE EE	87	0.75	0.10	59			39		300
BASAL MANNVILLE FF	142	0.75	0.10	96			39		150
BASAL MANNVILLE HH	99	0.75	0.10	67			40		690
BASAL MANNVILLE II	11	0.70	0.10	7			40		128
BASAL MANNVILLE JJ	20	0.75	0.10	14			40		150
BASAL MANNVILLE KK	28	0.75	0.10	19			40		150
BASAL MANNVILLE LL	21	0.75	0.10	14			40		150
OSTRACOD A	347	0.85	0.10	266			39		887
GLAUCONITIC F	325	0.85	0.10	249			40		1 064
BASAL MANNVILLE Y2Y	21	0.75	0.10	14			40		150
BASAL MANNVILLE H3H	36	0.75	0.10	24			40		128
BASAL MANNVILLE I3I	25	0.75	0.10	17			40		128
BASAL MANNVILLE HHH	90	0.75	0.10	61			39		432
BASAL MANNVILLE III	68	0.75	0.10	46			39		300
BASAL MANN & OST MU TOTAL	7 675	0.65	0.10	4 395	719	3 676	40	148 216	
RUNDLE A ASSOC	108	0.75	0.15	69b			40		492
RUNDLE A SOLN	4 783	0.46	0.38	1 364b			40		
RUNDLE A ASSOC	178	0.75	0.15	114b			40		289
RUNDLE A ASSOC	11	0.75	0.15	7b			40		45
RUNDLE A TOTAL	5 080	0.50	0.35	1 554b	1 058b	496	40	19 870	
ELKTON A	671	0.85	0.20	456	374	82	42	3 404	400
ELKTON I	495	0.85	0.15	358	215	143	40	5 676	400
BEAVERHILL LAKE A	61 153	C	C	21 000	79	20 921	43	896 256	11 259
OTHER	9 387			4 808	322	4 486		180 715	
TOTAL-CAROLINE	112 016			49 152	9 000	40 152		1 672 566	
CARROT CREEK 052-12W5									
LOWER MANNVILLE G	833	0.85	0.15	602			41		1 148
LOWER MANNVILLE L	261	0.85	0.20	178			41		511
LOWER MANNVILLE O	122	0.75	0.15	78			41		300
LOWER MANNVILLE G,L&O TOTAL	1 216	0.85	0.15	858	169	689	41	28 029	
LOWER MANNVILLE Q	303	0.85	0.15	219			40		128
JURASSIC T	394	0.80	0.10	284			41		608
L MANN Q & JUR T TOTAL	697	0.80	0.10	503	239	264	41	10 819	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	OC	frac	frac	m			
0.90	0.132	0.80	24 690	84	0.872	0.74	2 649.2	1980	1985	PROGAS A&S TCPL
0.75	0.114	0.70	24 690	84	0.872	0.74	2 677.0	1976	1989	
1.49	0.132	0.70	24 690	84	0.872	0.74	2 683.6	1976	1985	
2.00	0.118	0.80	26 730	87	0.900	0.71	2 689.4	1976	1987	A&S
0.90	0.125	0.85	26 370	88	0.903	0.70	2 650.4	1957	1989	
1.58	0.119	0.80	27 850	87	0.904	0.73	2 810.6	1964	1989	
0.70	0.094	0.75	30 530	91	0.934	0.73	2 773.3	1960	1988	
0.90	0.138	0.85	27 450	84	0.914	0.67	2 650.9	1981	1985	
0.80	0.090	0.80	29 330	89	0.921	0.73	2 774.0	1980	1984	
1.80	0.100	0.75	28 000	92	0.904	0.76	2 837.4	1981	1985	
1.00	0.100	0.80	29 330	89	0.921	0.73	2 792.2	1981	1985	
1.43	0.120	0.80	30 940	69	0.914	0.75	2 690.4	1981	1985	
0.90	0.130	0.75	27 550	72	0.869	0.76	2 694.3	1973	1989	GPP
0.66	0.106	0.85	26 010	87	0.898	0.70	2 639.4	1957	1987	
1.42	0.117	0.85	23 840	80	0.848	0.74	2 674.3	1980	1989	
0.80	0.110	0.85	28 300	89	0.908	0.74	2 664.1	1982	1987	
0.60	0.110	0.80	30 530	75	0.928	0.69	2 814.8	1982	1987	
0.45	0.093	0.80	24 810	75	0.867	0.71	2 782.9	1960	1985	
1.20	0.120	0.80	23 300	88	0.865	0.74	2 641.4	1981	1985	
4.00	0.120	0.85	22 600	83	0.862	0.71	2 594.5	1963	1987	
1.00	0.090	0.70	29 920	72	0.916	0.70	2 668.3	1984	1987	
3.22	0.124	0.80	25 680	87	0.882	0.73	2 556.1	1987	1987	GULF PANALTA NORCEN AMOCO A&S TCPL
0.60	0.112	0.80	25 880	85	0.896	0.69	2 583.9	1960	1988	
0.85	0.120	0.80	27 140	79	0.899	0.69	2 605.7	1984	1989	
1.30	0.110	0.85	25 880	85	0.896	0.69	2 598.4	1984	1985	
1.76	0.107	0.80	27 140	79	0.899	0.69	2 611.7	1984	1989	
0.75	0.130	0.85	28 840	79	0.889	0.80	2 629.0	1985	1986	TCPL SHELL A&S
2.50	0.106	0.85	38 770	91	1.037	0.73	3 118.0	1984	1988	
1.45	0.107	0.75	36 680	100	1.021	0.69	3 135.1	1983	1988	
1.50	0.129	0.80	38 770	98	1.040	0.70	3 181.6	1983	1987	
1.00	0.126	0.90	25 770	91	0.888	0.75	2 869.1	1983	1987	NRTHRGE CONHUNT
4.05	0.107	0.80	23 660	90	0.889	0.68	2 843.5	1980	1987	
2.00	0.102	0.70	22 600	88	0.880	0.70	2 925.0	1978	1989	
4.00	0.140	0.85	22 600	91	0.885	0.70	2 943.0	1980	1986	
1.03	0.100	0.70	22 470	94	0.873	0.73	2 954.6	1980	1988	
0.74	0.077	0.65	26 000	77	0.881	0.71	2 908.7		1983	
1.40	0.075	0.65	22 200	92	0.868	0.73	2 936.5	1979	1988	
1.16	0.095	0.70	26 750	78	0.890	0.71	2 915.5	1981	1988	
1.22	0.077	0.80	19 800	78	0.850	0.69	2 981.1	1980	1988	
2.63	0.094	0.80	22 800	93	0.895	0.68	2 982.5	1980	1982	
1.70	0.092	0.85	25 710	90	0.917	0.64	2 768.3	1982	1989	
1.20	0.081	0.65	22 920	77	0.856	0.71	2 869.2	1984	1987	
2.00	0.100	0.65	23 770	85	0.883	0.69	2 854.3	1984	1986	
1.30	0.110	0.65	23 770	85	0.883	0.69	2 859.2	1984	1986	
1.17	0.103	0.85	23 000	89	0.892	0.68	2 800.6	1979	1985	
1.35	0.097	0.85	23 000	89	0.892	0.67	2 806.6	1980	1985	
1.87	0.070	0.75	24 940	80	0.895	0.68	2 733.6	1978	1989	GULF PROGAS DIRECT VECTOR AMOCO A&S TCPL
3.04	0.106	0.85	24 940	80	0.895	0.68	2 671.8	1955	1989	DRY GAS BREAKTHROUGH
1.24	0.100	0.85	24 940	80	0.895	0.68	2 770.2	1955	1989	DRY GAS BREAKTHROUGH
9.87	0.099	0.80	23 740	93	0.859	0.81	2 830.9	1955	1989	TCPL DEKALB A&S DRY GAS BREAKTHROUGH
6.15	0.117	0.80	24 750	89	0.905	0.70	2 873.0	1959	1989	A&S
18.77	0.104	0.90	36 650	102	0.899	1.17	3 705.8	1981	1988	A&S
								1986	1989	SHELL CEL A&S TCPL
5.02	0.119	0.70	17 660	81	0.818	0.75	2 135.5	1976	1986	
2.86	0.115	0.75	17 900	65	0.728	0.85	2 180.2	1976	1982	
2.40	0.137	0.65	17 520	64	0.780	0.75	2 150.2	1979	1986	
9.97	0.130	0.75	23 100	62	0.805	0.79	2 060.1	1976	1986	TCPL
3.88	0.107	0.65	23 100	63	0.814	0.74	2 094.1	1979	1986	
								1979	1989	PROGAS PANALTA

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CARROT CREEK 052-12W5 (CONTINUED)									
LOWER MANNVILLE M SOLN	1 077	0.65	0.40	420			41		
JURASSIC V ASSOC	57	0.70	0.10	36			40		217
JURASSIC W	50	0.70	0.10	32			40		170
LMAN M, JUR D,P,V&W TOTAL	1 184	0.65	0.35	488	184	304	41	12 592	
OTHER	5 081			3 131	644	2 487		99 360	
TOTAL-CARROT CREEK	8 178			4 980	1 236	3 744		150 800	
CARSON CREEK 061-12W5									
BEAVERHILL LAKE B	10 941	C	C	8 030			42a		8 415
BEAVERHILL LAKE B TOTAL	10 941	0.90	0.20	8 030	5 789	2 241	42	93 338	
TOTAL-CARSON CREEK	10 941			8 030	5 789	2 241		93 338	
CARSON CREEK NORTH 062-12W5									
BEAVERHILL LAKE A ASSOC	637	0.85	0.15	460b			42		1 155
BEAVERHILL LAKE A SOLN	16 495	0.46	0.15	6 450b			42		
BEAVERHILL LAKE B ASSOC	182	0.75	0.15	116b			42		286
BEAVERHILL LAKE A&B TOTAL	17 314	0.50	0.15	7 026b	5 162b	1 864	42	77 692	
TOTAL-CARSON CREEK NORTH	17 314			7 026	5 162	1 864		77 692	
CARSTAIRS 030-02W5									
ELKTON A	29 728	0.93	0.15	23 500	21 184	2 316	40	93 288	6 316
ELKTON C	611	0.80	0.15	416		416	40	16 811	200
OTHER	736			480	44	436		17 430	
TOTAL-CARSTAIRS	31 075			24 396	21 228	3 168		127 529	
CARVEL 053-02W5									
TOTAL-CARVEL	462			310		310		11 562	
CASLAN 065-17W4									
NISKU A	621	0.75	0.05	443	187	256	37	9 464	1 955
OTHER	633			393	132	261		9 810	
TOTAL-CASLAN	1 254			836	319	517		19 274	
CASSILS 019-15W4									
MILK RIVER A	2 481	0.70	0.05	1 650			36		9 504
MEDICINE HAT A	1 237	0.70	0.03	840			36		8 311
MEDICINE HAT C	206	0.50	0.03	100			36		4 462
SE ALTA GAS SYS (MU) TOTAL	3 924	0.70	0.05	2 590	434	2 156	36	78 629	
OTHER	1			1	1	< 1		-	
TOTAL-CASSILS	3 925			2 591	435	2 156		78 629	
CAVALIER 024-23W4									
TOTAL-CAVALIER	121			71		71		2 624	
CAW (SA) 061-06W6									
TOTAL-CAW	91			60		60		2 406	
CECIL 084-08W6									
TOTAL-CECIL	816			565	24	541		20 576	
CECILIA 057-22W5									
NIS 056-22	2 308	0.80	0.35	1 200		1 200	37	44 724	856
OTHER	353			254		254		9 820	
TOTAL-CECILIA	2 661			1 454		1 454		54 544	
CENTRON (SA) 023-26W4									
TOTAL-CENTRON	21			11		11		402	
CEREAL 026-07W4									
TOTAL-CEREAL	147			93		93		3 407	
CESSFORD 025-13W4									
MILK RIVER A	4 180	0.70	0.05	2 780			36		81 234
MEDICINE HAT A	10 677	0.70	0.03	7 250			36		128 237
MEDICINE HAT C	456	0.50	0.03	221			36		15 830
MEDICINE HAT D	1 124	0.50	0.03	545			36		35 606
SECOND WHITE SPECKS A	576	0.75	0.05	410			36		8 868
SE ALTA GAS SYS(MU) TOTAL	17 013	0.70	0.05	11 206	1 745	9 461	36	345 043	
VIKING D		0.65	0.03				37		200

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.90 1.79	0.119 0.133	0.70 0.75	17 200 17 100	78 80	0.832 0.837	0.74 0.71	2 140.8 2 154.8	1976 1976 1980 1976	1989 1986 1986 1989	SOLN MU - L MANN M. JURASSIC O&P NONCOMMERCIAL OIL PROGAS
7.54	0.077	0.80	26 130	93	0.850	0.92	2 620.0	1957 1957	1988 1989	GAS CYCLING SCHEME TCPL A&S GAS CYCLING
3.13 3.00	0.089 0.102	0.85 0.90	25 750 25 920	85 88	0.878 0.884	0.75 0.74	2 641.5 2 651.8	1958 1958 1958 1958	1988 1988 1987 1988	SOLN MU-BEAVERHILL LAKE A&S CONC PROD SOLN MU-BEAVERHILL LAKE A&S CONC PROD A&S CONCURRENT PRODUCTION
18.65 18.18	0.121 0.115	0.90 0.85	22 820 17 240	80 75	0.853 0.819	0.78 0.76	2 466.4 2 401.3	1958 1986	1989 1989	TCPL PRODUCTION DECLINE GAS CYCLING SCHEME
9.10	0.165	0.65	3 150	20	0.939	0.58	586.2	1976	1982	PANALTA
10.32 3.45 1.17	0.154 0.170 0.139	0.55 0.55 0.60	3 140 4 310 4 450	16 17 19	0.937 0.916 0.916	0.56 0.56 0.56	355.7 487.7 487.7	1910 1904 1973 1904	1987 1987 1982 1988	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE PART OF MED HAT POOL NO.1 PART OF MED HAT POOL NO.3 PANALTA TCPL
15.30	0.075	0.85	34 460	103	0.943	0.74	3 475.3	1987	1989	A&S CDNHUNT BER TOP/BASE TVD
3.48 1.93 0.73 0.80 0.84 1.80	0.154 0.170 0.139 0.139 0.216 0.155	0.55 0.55 0.60 0.60 0.60 0.45	3 140 4 310 4 450 4 450 5 690 7 550	16 17 19 19 27 29	0.937 0.916 0.916 0.916 0.904 0.870	0.56 0.56 0.56 0.56 0.56 0.59	355.7 487.7 487.7 487.7 630.0 781.1	1910 1904 1973 1973 1944 1904 1967	1987 1987 1988 1988 1982 1988 1989	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE PART OF MED HAT POOL NO.1 PART OF MED HAT POOL NO.3 PART OF MED HAT POOL NO.4 PART OF 2WS POOL NO.1 PROGAS POCD PANALTA ESSO RENENER CNG TCPL PRODUCTION DECLINE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CESSFORD 025-13W4 (CONTINUED)									
VIKING H		0.65	0.03				38		1 548
VIKING D & H TOTAL	588	0.65	0.05	371	291	80	37	2 997	
BASAL COLORADO A ASSOC		0.90	0.04				38		41 326
BASAL COLORADO A SOLN	544	0.47	0.20	205b			38		
BASAL COLORADO A ASSOC		0.90	0.04				38		580
BASAL COLORADO A ASSOC		0.90	0.04				38		93
BASAL COLORADO A TOTAL	20 220	0.90	0.05	17 205b	16 848b	357	38	13 698	
BASAL COLORADO O	1 050	0.80	0.10	756	680	76	38	2 918	4 000
BASAL COLORADO E		0.85	0.10				38		3 590
MANNVILLE N		0.85	0.04				38		440
MANNVILLE O		0.75	0.05				38		200
BSL COLO E & MANN N&O TOTAL	1 978	0.85	0.10	1 530	1 451	79	38	3 008	
MANNVILLE I ASSOC	433	0.75	0.04	312	104	208	38	7 968	377
MANNVILLE C ASSOC	1 934	0.85	0.10	1 480b			40		2 897
MANNVILLE C SOLN	1 408	0.65	0.20	732b			40		
MANNVILLE C ASSOC	15	0.75	0.10	10b			40		64
MANNVILLE C TOTAL	3 357	0.75	0.15	2 222b	1 640b	582	40	23 542	
MANNVILLE G	1 314	0.70	0.04	883	849	34	38	1 283	1 709
MANNVILLE H	1 805	0.75	0.04	1 300	1 232	68	37	2 536	2 836
MANNVILLE J	774	0.72	0.04	535	491	44	38	1 661	705
MANNVILLE V	1 900	0.85	0.04	1 550	1 324	226	38	8 527	1 281
MANNVILLE Y ASSOC		0.85	0.10				39		298
MANNVILLE Y SOLN	241	0.65	0.30	110b			39		
MANNVILLE Z ASSOC		0.85	0.10				39		96
MANNVILLE Y & Z TOTAL	753	0.80	0.15	502b	420b	82	39	3 175	
MANNVILLE L		0.75	0.05				39		498
MANNVILLE CC		0.75	0.05				38		2 484
MANNVILLE L & CC TOTAL	609	0.75	0.05	434	369	65	38	2 483	
GLC SS 31-023-13	411	0.80	0.05	313		313	38	11 888	150
GLAUCONITIC T	345	0.80	0.10	248b			39		2 038
MANNVILLE HH ASSOC	1 075	0.80	0.10	774b			38		2 447
MANNVILLE HH SOLN	13	0.65	0.35	5b			38		
GLAUC T & MANN HH TOTAL	1 433	0.80	0.10	1 027b	318b	709	38	26 999	
BANFF B ASSOC	385	0.85	0.10	294b			39		1 615
BANFF B SOLN	313	0.65	0.12	179b			39		
BANFF B ASSOC	2	0.75	0.10	2b			39		26
BANFF B ASSOC	6	0.75	0.10	5b			39		72
BANFF B TOTAL	706	0.75	0.10	480b	171b	309	39	12 113	
OTHER	9 877			6 442	2 462	3 980		149 060	
TOTAL-CESSFORD	64 221			47 068	30 395	16 673		618 899	
CHAIN 033-17W4									
TOTAL-CHAIN	1 402			895	202	693		26 555	
CHAMBERLAIN 052-23W4									
TOTAL-CHAMBERLAIN	8			5		5		191	
CHAMBERS 041-10W5									
ELTN 05-041-11	457	0.85	0.15	330		330	39	12 857	200
OTHER	1 128			794		794		31 274	
TOTAL-CHAMBERS	1 585			1 124		1 124		44 131	
CHANDLER 059-02W4									
TOTAL-CHANDLER	404			241	78	163		5 926	
CHARD 079-06W4									
WABISKAW B	59	0.50	0.05	29			37		3 558
WABISKAW D	23	0.50	0.05	11			38		1 567
WABISKAW E	3	0.50	0.10	2			41		269
WABISKAW F	8	0.70	0.05	6			37		200
MCMURRAY B	4 224	0.75	0.05	3 010			37		22 787
MCMURRAY D	89	0.50	0.05	43			37		772
MCMURRAY E	148	0.50	0.05	70			37		2 790
MCMURRAY F	6	0.50	0.05	3			37		237
MCMURRAY G	9	0.50	0.05	5			37		279

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.12	0.189	0.50	7 630	27	0.853	0.60	800.9	1965	1989	PRODUCTION DECLINE
3.45	0.252	0.65	8 810	27	0.822	0.62	881.3	1965	1989	A&S POCO TCPL
1.94	0.265	0.60	8 810	27	0.822	0.62	917.6	1950	1989	MATERIAL BALANCE CONCURRENT PRODUCTION
1.75	0.265	0.60	8 810	27	0.822	0.62	918.4	1950	1989	MATERIAL BALANCE CONCURRENT PRODUCTION
2.47	0.241	0.55	7 600	28	0.837	0.65	923.0	1950	1989	MATERIAL BALANCE
2.43	0.212	0.50	8 680	27	0.820	0.63	899.0	1950	1989	PANALTA ESSO TCPL CONCURRENT PRODUCTION
3.08	0.212	0.50	9 760	33	0.813	0.66	1 012.9	1951	1988	ESSO TCPL MATERIAL BALANCE
6.17	0.233	0.60	8 720	33	0.828	0.66	973.2	1950	1988	MATERIAL BALANCE
2.49	0.218	0.70	9 740	33	0.838	0.59	1 019.9	1951	1986	ESSO TCPL
3.33	0.240	0.70	9 720	33	0.757	0.71	1 014.6	1951	1986	TCPL PRODUCTION DECLINE CONCURRENT
1.23	0.230	0.70	9 720	33	0.757	0.71	1 023.5	1951	1986	PRODUCTION
4.02	0.210	0.50	9 760	33	0.813	0.66	1 036.1	1951	1986	CONCURRENT PRODUCTION
4.30	0.254	0.55	9 930	27	0.828	0.60	933.3	1951	1986	CONCURRENT PRODUCTION
5.50	0.227	0.65	10 580	33	0.803	0.66	1 037.7	1951	1986	ESSO TCPL CONCURRENT PRODUCTION
3.14	0.222	0.60	9 650	38	0.827	0.66	1 123.5	1951	1986	TCPL MATERIAL BALANCE
2.05	0.210	0.65	9 710	32	0.808	0.65	1 000.1	1951	1989	TCPL PRODUCTION DECLINE
0.69	0.233	0.65	9 680	29	0.801	0.64	991.3	1951	1989	SO LN MU - MANNVILLE
3.03	0.023	0.50	9 650	35	0.792	0.70	1 107.6	1951	1989	Y&Z, CONC PROD
2.04	0.170	0.50	9 450	35	0.850	0.59	1 087.1	1951	1989	PRODUCTION DECLINE SO LN MU - MANNVILLE
16.50	0.220	0.70	9 640	33	0.830	0.62	970.0	1951	1989	Y&Z, CONC PROD
1.64	0.177	0.55	9 670	40	0.828	0.64	1 282.0	1951	1989	PRODUCTION DECLINE
4.77	0.152	0.55	9 830	38	0.816	0.68	1 229.9	1951	1989	SO LN MU - MANNVILLE
2.53	0.151	0.50	10 900	38	0.799	0.66	1 195.0	1951	1989	Y&Z, CONC PROD
0.73	0.151	0.50	10 900	38	0.799	0.65	1 269.7	1951	1989	PRODUCTION DECLINE
0.94	0.151	0.50	10 900	37	0.800	0.66	1 278.5	1951	1989	ESSO TCPL CONCURRENT PRODUCTION
14.87	0.080	0.85	29 790	110	0.978	0.66	3 398.8	1951	1989	MATERIAL BALANCE
0.72	0.251	0.50	1 790	15	0.963	0.55	207.7	1951	1989	MATERIAL BALANCE
0.65	0.272	0.45	1 740	7	0.960	0.55	257.4	1951	1989	TCPL
0.45	0.258	0.50	1 550	10	0.949	0.69	259.6	1951	1989	PART OF GLAUC POOL NO.4
1.00	0.250	0.40	3 510	12	0.926	0.56	230.9	1951	1989	PART OF GLAUC POOL NO.4 SO LN MU - GLAUC T
5.04	0.278	0.75	1 730	16	0.965	0.55	244.6	1951	1989	& MANN HH
3.14	0.271	0.75	1 780	18	0.964	0.55	315.2	1951	1989	PART OF GLAUC POOL NO.4 SO LN MU - GLAUC T
1.66	0.280	0.65	1 730	18	0.965	0.55	218.3	1951	1989	& MANN HH
1.09	0.263	0.55	1 420	9	0.968	0.55	211.7	1951	1989	POCO TCPL PART OF GLAUC POOL NO.4 GAS
1.19	0.270	0.60	1 570	10	0.965	0.55	324.0	1951	1989	PRODUCED BEFORE OIL DISCOVERED

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CHARD 079-06W4 (CONTINUED)									
MCMURRAY H	7	0.60	0.05	4			37		200
MCMURRAY I	18	0.50	0.05	9			38		469
MCMURRAY J	17	0.50	0.05	9			38		518
MCMURRAY K	25	0.50	0.05	12			37		200
MCMURRAY L	9	0.50	0.05	5			37		200
MCMURRAY M	53	0.50	0.05	26			37		200
WBSK & MCM MU† TOTAL	4 698	0.75	0.05	3 244	1 346	1 898	37	70 947	200
OTHER	570			306		306		11 378	
TOTAL-CHARD	5 268			3 550	1 346	2 204		82 325	
CHARLIE 089-05W6									
GETHING C	464	0.80	0.05	352			37		2 341
GETHING E	81	0.70	0.05	54			37		300
GETHING C & E TOTAL	545	0.80	0.05	406	50	356	37	13 065	
OTHER	165			106	14	92		3 507	
TOTAL-CHARLIE	710			512	64	448		16 572	
CHARLOTTE LAKE 060-04W4									
COLONY G	885	0.65	0.05	546	332	214	38	8 162	2 931
COLONY A		0.65	0.05				38		4 396
GRAND RAPIDS A		0.55	0.05				37		463
COLONY A & GRD RAP A TOTAL	1 000	0.65	0.05	618	339	279	38	10 641	
OTHER	794			479	122	357		13 324	
TOTAL-CHARLOTTE LAKE	2 679			1 643	793	850		32 127	
CHARM 103-09W6									
TOTAL-CHARM	57			38		38		1 384	
CHARRON 069-16W4									
GRAND RAPIDS B	457	0.70	0.05	304	192	112	38	4 212	1 219
GROSMONT A	877	0.60	0.05	500	425	75	37	2 768	5 142
OTHER	1 466			845	172	673		24 979	
TOTAL-CHARRON	2 800			1 649	789	860		31 959	
CHAUVIN 043-01W4									
TOTAL-CHAUVIN	659			438	4	434		14 951	
CHAUVIN SOUTH 042-02W4									
TOTAL-CHAUVIN SOUTH	2 184			1 408	391	1 017		34 870	
CHEDDERVILLE 037-07W5									
LEDUC A	2 157	0.60	0.15	1 100	887	213	39	8 281	1 469
LEDUC B	1 123	0.80	0.10	809	183	626	39	24 571	200
OTHER	85			58		58		2 327	
TOTAL-CHEDDERVILLE	3 365			1 967	1 070	897		35 179	
CHERRHILL 056-05W5									
BANFF F SOLN	635	0.65	0.20	330	44	286	40	11 446	
BANFF A SOLN	1 008	0.40	0.75	101b			40		
BANFF A ASSOC	365	0.85	0.10	279b	79b	301	40	11 971	448
BANFF H ASSOC	261	0.70	0.10	165b			39		329
BANFF H SOLN	544	0.65	0.15	301b			39		
BANFF H ASSOC	2	0.70	0.10	1b			39		5
BANFF H ASSOC	135	0.70	0.10	86b			39		253
BANFF H ASSOC	85	0.70	0.10	54b			40		176
BANFF H TOTAL	1 027	0.65	0.10	607b	175b	432	39	17 016	
OTHER	2 928			1 900	274	1 626		62 879	
TOTAL-CHERRHILL	5 963			3 217	572	2 645		103 312	
CHERPETA 074-19W4									
TOTAL-CHERPETA	918			513		513		18 923	
CHERRY (SA) 008-12W4									
TOTAL-CHERRY	65			47		47		1 581	
CHICKADEE 062-16W5									
GETHING D ASSOC	1 040	0.80	0.10	749	143	606	39	23 798	1 971
GETHING A	1 262	0.75	0.10	852	182	670	39	25 835	2 442
SW HL 062-16	559	0.85	0.15	404		404	39	15 728	564
OTHER	892			587	97	490		19 428	
TOTAL-CHICKADEE	3 753			2 592	422	2 170		84 789	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.60	0.300	0.45	1 640	16	0.966	0.55	209.2	1985	1988	PARAMNT SOQUIP PANALTA PCI HOME ESSO CANOXY BVI TCPL
1.05	0.307	0.65	1 750	8	0.961	0.55	310.4	1985	1988	
1.16	0.300	0.55	1 680	16	0.966	0.55	255.7	1986	1988	
4.70	0.250	0.60	1 720	17	0.966	0.56	283.2	1988	1989	
1.70	0.280	0.55	1 660	8	0.963	0.56	213.4	1988	1989	
7.60	0.270	0.75	1 660	11	0.965	0.56	221.2	1988	1989	
								1957	1989	
2.03	0.205	0.65	7 170	39	0.891	0.60	1 070.9	1979	1988	PROGAS
3.10	0.203	0.60	7 180	46	0.900	0.58	1 049.9	1986	1986	
								1979	1989	
1.90	0.301	0.70	2 430	12	0.945	0.57	330.5	1972	1989	TRITON RENENER MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE TRITON DIRECT CNG
2.49	0.295	0.75	2 230	13	0.950	0.57	346.3	1964	1989	
0.67	0.309	0.55	2 470	14	0.948	0.56	365.6	1983	1989	
								1964	1989	
1.78	0.337	0.75	2 270	12	0.951	0.56	284.3	1978	1988	CWNGNUL PRODUCTION DECLINE PRODUCTION DECLINE
7.57	0.141	0.75	2 620	23	0.951	0.57	463.6	1974	1986	
12.01	0.063	0.90	30 430	134	0.986	0.71	3 555.0	1967	1989	PANALTA ESSO BP GULF
47.00	0.060	0.90	28 940	110	0.971	0.64	3 631.7	1987	1989	
5.06	0.181	0.70	10 910	41	0.777	0.68		1981	1987	CWNGNUL CONCURRENT PRODUCTION CWNGNUL CONCURRENT PRODUCTION CONCURRENT PRODUCTION CONCURRENT PRODUCTION CONCURRENT PRODUCTION CONCURRENT PRODUCTION CONCURRENT PRODUCTION
5.28	0.184	0.70	10 810	48	0.821	0.71	1 299.8	1966	1988	
						0.66	1 357.9	1973	1989	
2.40	0.270	0.55	10 810	48	0.821	0.66	1 372.2	1973	1988	
3.03	0.215	0.70	10 810	48	0.821	0.66	1 343.7	1973	1988	
2.80	0.197	0.75	10 810	48	0.821	0.65	1 329.5	1973	1988	
								1973	1989	
										PROGAS TCPL CONCURRENT PRODUCTION
4.44	0.150	0.60	14 000	76	0.864	0.64	1 856.7	1980	1989	PROGAS CONCURRENT PRODUCTION PROGAS PROGAS
4.97	0.140	0.55	14 110	73	0.859	0.66	1 863.8	1978	1987	
6.53	0.088	0.80	27 870	117	0.942	0.79	2 978.4	1976	1984	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CHICKEN 062-07W6 TOTAL-CHICKEN	464			310	11	299		11 733	
CHIGWELL 041-24W4 MANNVILLE A	790	0.80	0.10	569	569	< 1	39	-	694
MANNVILLE J	1 733	0.75	0.10	1 170	149	1 021	39	39 901	1 241
OTHER	4 099			2 478	482	1 996		78 215	
TOTAL-CHIGWELL	6 622			4 217	1 200	3 017		118 116	
CHIGWELL NORTH 042-24W4 TOTAL-CHIGWELL NORTH	92			60		60		2 393	
CHIME (SA) 061-05W6 TOTAL-CHIME	940			672		672		26 778	
CHIN COULEE 007-14W4 TOTAL-CHIN COULEE	117			51	10	41		1 314	
CHINCHAGA 097-06W6 SLAVE POINT A	1 389	0.80	0.10	1 000	277	723	38	27 662	1 638
OTHER	337			232		232		8 938	
TOTAL-CHINCHAGA	1 726			1 232	277	955		36 600	
CHINCHAGA NORTH 098-07W6 DEBOLT-DETRITAL A	800	0.80	0.05	608	541	67	37	2 476	2 622
OTHER	99			70		70		2 660	
TOTAL-CHINCHAGA NORTH	899			678	541	137		5 136	
CHINOOK 029-08W4 BELLY RIVER A	367	0.87	0.05	303	296	7	37	259	4 403
OTHER	442			284	57	227		8 398	
TOTAL-CHINOOK	809			587	353	234		8 657	
CHINOOK RIDGE (SA) 065-13W6 CDOT 12-065-13	841	0.90	0.10	681		681	39	26 838	440
NOTI 12-065-13	645	0.90	0.10	523		523	39	20 449	250
BELL 12-065-13	749	0.80	0.25	449		449	37	16 541	200
OTHER	319			230		230		9 064	
TOTAL-CHINOOK RIDGE	2 554			1 883		1 883		72 892	
CHIP LAKE 053-10W5 ROCK CREEK C	440	0.90	0.10	356	348	8	40	321	428
OTHER	180			108		108		4 572	
TOTAL-CHIP LAKE	620			464	348	116		4 893	
CHIPMUNK (SA) 082-12W5 TOTAL-CHIPMUNK	33			24		24		879	
CHISHOLM 068-01W5 TOTAL-CHISHOLM	840			538	281	257		9 511	
CINDY 077-01W6 TOTAL-CINDY	113			80	55	25		986	
CLAIR 073-05W6 TOTAL-CLAIR	190			136		136		5 130	
CLARESHOLM 013-26W4 TOTAL-CLARESHOLM	1 515			1 009	174	835		32 085	
CLAY 060-13W4 VIKING A	1 133	0.40	0.05	430	1	429	37	15 770	19 603
OTHER	1 634			1 134	666	468		17 409	
TOTAL-CLAY	2 767			1 564	667	897		33 179	
CLAYHURST 083-05W6 TOTAL-CLAYHURST	14			8		8		308	
CLEAR HILLS (SA) 087-11W6 TOTAL-CLEAR HILLS	186			118		118		4 468	
CLEAR PRAIRIE 091-12W6 TOTAL-CLEAR PRAIRIE	331			214		214		8 179	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	OC	frac	frac	m			
7.38 8.72	0.170 0.159	0.65 0.80	11 530 11 930	64 56	0.834 0.819	0.70 0.69	1 571.2 1 573.7	1952 1977	1985 1988	PROGAS PANALTA ESSO
7.20	0.081	0.60	20 600	93	0.842	0.83	2 149.7	1973	1984	PANALTA MATERIAL BALANCE
3.78	0.204	0.65	5 770	28	0.896	0.58	691.7	1978	1986	PROGAS PANALTA A&S
2.87	0.346	0.65	1 670	18	0.967	0.56	244.2	1972	1987	CWNGNUL MATERIAL BALANCE
7.09 9.87 19.80	0.200 0.200 0.120	0.70 0.70 0.65	22 750 23 440 37 510	98 112 150	0.906 0.927 1.040	0.67 0.67 0.69	2 807.1 2 881.6 4 303.0	1956 1956 1979	1981 1988 1983	BER BER BER
4.61	0.140	0.80	21 370	57	0.803	0.72	1 856.9	1950	1988	TOPL MATERIAL BALANCE NONCOMMERCIAL OIL
1.03	0.252	0.50	4 180	18	0.917	0.57	454.4	1949	1988	PANALTA PART OF VIK POOL NO.6

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CLEARWATER 035-12W5 RUNDLE A TOTAL-CLEARWATER	7 189 7 189	0.85	0.10	5 500 5 500	247 247	5 253 5 253	38	202 083 202 083	1 124
CLIFFDALE (SA) 084-17W5 TOTAL-CLIFFDALE	34			19		19		732	
CLIVE 040-24W4 D-2 A POOL 1 ASSOC D-2 A POOL 1 SOLN D-2 A POOL 2 ASSOC D-2 A POOL 3 ASSOC D-2 A POOL 4 ASSOC D-2 A TOTAL D-3 A ASSOC D-3 A SOLN D-3 A POOL 2 ASSOC D-3 A POOL 3 ASSOC D-3 A POOL 4 ASSOC D-3 A TOTAL OTHER TOTAL-CLIVE	158 1 146 89 935 3 2 331 149 2 077 378 381 102 3 087 2 317 7 735	0.85 0.48 0.85 0.85 0.85 0.65 0.85 0.66 0.85 0.85 0.85 0.70	0.15 0.40 0.25 0.35 0.25 0.35 0.30 0.35 0.30 0.30 0.30 0.35	114b 330b 57b 517b 2b 1 020b 89 891 225 227 61 1 493 1 523 4 036	483b 701 273 1 457	537 792 1 250 2 579	35 35 44 43 38 39 42 42 42 42 42 42	21 093 33 106 47 532 101 731	293 516 451 314
CLOUSTON (SA) 071-25W5 TOTAL-CLOUSTON	68			46		46		1 766	
CLOVER 061-17W5 TOTAL-CLOVER	215			149	38	111		4 295	
CLYDE LAKE 073-10W4 TOTAL-CLYDE LAKE	55			34		34		1 268	
CLYDEN 075-13W4 TOTAL-CLYDEN	255			151		151		5 581	
COALDALE 008-20W4 TOTAL-COALDALE	606			338	242	96		3 354	
COODIN (SA) 088-19W5 TOTAL-COODIN	7			5		5		183	
COLD LAKE 063-02W4 COLONY A COLONY D OTHER TOTAL-COLD LAKE	355 465 483 1 303	0.90 0.85	0.05 0.05	304 375 268 947	249 222 110 581	55 153 158 366	37 37	2 024 5 693 5 782 13 499	710 945
COLEMAN 009-04W5 RUNDLE A PALLISER B RUNDLE A & PALLISER B TOTAL TOTAL-COLEMAN	10 461 3 428 13 889 13 889	0.75 0.75 0.75	0.35 0.30 0.35	5 100 1 800 6 900 6 900	 2 159 2 159	 4 741 4 741	37 37 37	 175 607 175 607	1 998 630
COLINTON 064-20W4 TOTAL-COLINTON	585			362	46	316		11 810	
COLORADO 090-04W6 TOTAL-COLORADO	294			167	49	118		4 364	
COLT 058-24W5 TOTAL-COLT	484			325	3	322		12 586	
COLUMBIA 046-16W5 VIKING A NISKU B OTHER TOTAL-COLUMBIA	1 570 891 511 2 972	0.80 0.70	0.10 0.40	1 130 374 371 1 875	9 311 6 326	1 121 63 365 1 549	40 37	45 344 2 322 14 267 61 933	1 581 128
COMPEER 033-02W4 UPPER MANNVILLE A OTHER TOTAL-COMPEER	448 646 1 094	0.85	0.05	362 459 821	112 194 306	250 265 515	37	9 278 9 885 19 163	929

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
40.28	0.066	0.90	35 250	94	1.022	0.62	4 259.0	1980	1988	SHELL
5.79	0.065	0.85	17 100	67	0.847	0.75	1 850.7	1951	1988	CONING GAS CAP
2.51	0.063	0.85	17 090	67	0.693	0.90	1 832.9	1951	1988	CONING GAS CAP
6.20	0.062	0.85	17 070	67	0.684	0.89	1 850.2	1951	1986	
2.13	0.063	0.85	17 060	67	0.772	0.84	1 883.7	1951	1984	
4.04	0.056	0.85	17 570	67	0.728	0.83	1 886.4	1951	1989	PANALTA ESSO TCPL CONING GAS CAP
7.62	0.056	0.85	17 600	67	0.728	0.83	1 912.6	1952	1989	
8.16	0.056	0.85	17 570	57	0.697	0.90	1 881.5	1952	1986	
3.39	0.056	0.85	17 550	67	0.728	0.83	1 874.0	1952	1986	PANALTA ESSO TCPL
								1952	1989	
1.60	0.310	0.70	2 300	20	0.955	0.57	269.1	1952	1989	TRITON MATERIAL BALANCE
2.27	0.310	0.70	2 300	18	0.954	0.56	270.1	1952	1989	TRITON MATERIAL BALANCE
28.86	0.068	0.85	30 950	67	0.844	0.76	3 053.4	1969	1989	MATERIAL BALANCE
41.70	0.050	0.80	33 700	102	0.958	0.70	3 605.0	1969	1984	MATERIAL BALANCE
								1969	1989	A&S
4.09	0.126	0.75	31 500	89	0.963	0.66	3 057.9	1979	1989	CDNHUNT TOP/BASE TVD
17.00	0.098	0.85	59 770	127	1.170	0.81	4 213.5	1980	1989	GULF PANALTA CNG PRODUCTION DECLINE
3.36	0.273	0.70	6 890	26	0.873	0.59	865.2	1956	1989	MIP

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
COMREY 001-07W4									
BOW ISLAND	734	0.80	0.05	558	549	9	37	329	2 447
OTHER	511			344	145	199		7 280	
TOTAL-COMREY	1 245			902	694	208		7 609	
CONKLIN (SA) 075-07W4									
TOTAL-CONKLIN	55			31		31		1 148	
CONNEMARA 016-27W4									
RUND 04-016-27	498	0.90	0.15	381		381	37	14 249	200
OTHER	43			20		20		745	
TOTAL-CONNEMARA	541			401		401		14 994	
CONNORSVILLE 025-15W4									
MILK RIVER A	1 017	0.70	0.05	676			36		16 500
MEDICINE HAT A	2 827	0.70	0.03	1 920			36		25 598
SE ALTA GAS SYS (MU) TOTAL	3 844	0.70	0.05	2 596	92	2 504	36	91 321	
VIKING A	527	0.60	0.05	300	144	156	38	5 875	2 506
GLAUCONITIC A	303	0.85	0.10	232			39		440
GLAUCONITIC B	31	0.75	0.05	22			38		128
GLAUCONITIC C	236	0.75	0.05	168			38		738
GLAUCONITIC E	206	0.75	0.10	140			39		150
GLAUCONITIC I	32	0.75	0.10	22			39		150
ELLERSLIE A	3 820	0.80	0.10	2 750			39		9 732
GLAUC ABCET & ELLERS A TOTAL	4 628	0.80	0.10	3 334	1 531	1 803	39	70 587	
OTHER	851			592	160	432		16 357	
TOTAL-CONNORSVILLE	9 850			6 822	1 927	4 895		184 140	
CONRAD 005-15W4									
TOTAL-CONRAD	13			9		9		310	
COOKING LAKE 052-22W4									
TOTAL-COOKING LAKE	171			108	9	99		3 617	
CORAL 046-05W5									
TOTAL-CORAL	235			156		156		5 814	
CORBETT 061-07W5									
VIKING A	551	0.90	0.05	471	440	31	39	1 196	1 662
OTHER	296			195	14	181		6 964	
TOTAL-CORBETT	847			666	454	212		8 160	
CORDEL 042-16W5									
TV 042-16	1 420	0.50	0.15	603		603	39	23 294	400
TV 042-16	2 063	0.50	0.15	878		878	39	33 917	800
TOTAL-CORDEL	3 483			1 481		1 481		57 211	
CORNER 080-09W4									
TOTAL-CORNER	64			31		31		1 162	
CORNWALL 070-26W5									
TOTAL-CORNWALL	71			54		54		2 047	
CORRIN 061-13W4									
TOTAL-CORRIN	1 384			697	111	586		21 371	
COSWAY 030-26W4									
TOTAL-COSWAY	195			126	49	77		3 031	
COUNTESS 020-16W4									
MILK RIVER A	8 857	0.70	0.05	5 890			36		77 352
MEDICINE HAT A	11 296	0.70	0.03	7 670			36		105 159
MEDICINE HAT C	214	0.50	0.03	104			36		6 613
MEDICINE HAT D	124	0.50	0.03	60			36		4 304
SECOND WHITE SPECKS A	705	0.80	0.05	536			36		5 363
SE ALTA GAS SYS (MU) TOTAL	21 196	0.70	0.05	14 260	1 060	13 200	36	481 404	
BOW ISLAND A	1 079	0.65	0.05	666	526	140	37	5 209	7 559
BASAL COLORADO A	5 170	0.91	0.05	4 470	4 327	143	37	5 280	14 468
UPPER MANNVILLE D SOLN	556	0.52	0.25	217			37		

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
5.86	0.250	0.50	5 340	27	0.902	0.59	755.3	1952	1987	CMG PRODUCTION DECLINE
12.19	0.120	0.35	20 820	68	0.867	0.7	2 288.1	1956	1979	PROGAS BER NONCOMMERCIAL OIL
2.44	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
2.56	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	PART OF MED HAT POOL NO.1
2.23	0.210	0.65	7 570	36	0.872	0.60	926.3	1904	1983	PROGAS PANALTA CWNGNU VECTOR CMG TCPL
6.17	0.170	0.60	9 260	29	0.796	0.66	1 064.7	1956	1980	PANALTA VECTOR TCPL MATERIAL BALANCE
2.70	0.200	0.45	9 310	40	0.850	0.61	1 102.5	1963	1982	PART OF ELRSL POOL NO.1
1.85	0.250	0.65	9 340	29	0.826	0.61	1 073.8	1964	1984	PART OF ELRSL POOL NO.1
11.30	0.190	0.60	9 690	42	0.821	0.66	1 069.7	1975	1976	PART OF ELRSL POOL NO.1
2.90	0.100	0.70	9 220	35	0.816	0.65	1 131.9	1976	1988	PART OF ELRSL POOL NO.1
3.68	0.172	0.55	9 720	35	0.796	0.67	1 116.7	1987	1988	PART OF ELRSL POOL NO.1
								1963	1988	PROGAS PANALTA VECTOR POCO TCPL PART OF ELRSL POOL NO.1
2.06	0.200	0.55	8 270	44	0.856	0.64	1 024.2	1971	1982	TCPL MATERIAL BALANCE
13.00	0.089	0.75	29 520	106	0.978	0.63	3 828.2	1979	1989	A&S TCPL BER TOP/BASE TVD
16.38	0.056	0.80	29 700	100	0.974	0.63	3 584.5	1979	1989	A&S TCPL BER TOP BASE TVD
4.52	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
2.49	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1989	PART OF MED HAT POOL NO.1
0.82	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1989	PART OF MED HAT POOL NO.3
0.73	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1988	PART OF MED HAT POOL NO.4
1.70	0.216	0.60	5 690	27	0.904	0.56	737.9	1944	1987	PART OF 2WS POOL NO.1
1.66	0.183	0.60	7 310	31	0.873	0.59	888.7	1904	1988	PROGAS PANALTA POCO TCPL KANNGAZ
1.19	0.182	0.70	8 470	37	0.868	0.60	1 062.4	1951	1988	TCPL
						0.63		1951	1980	TCPL MATERIAL BALANCE
								1967	1989	TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
COUNTLESS 020-16W4 (CONTINUED)									
UPPER MANNVILLE D ASSOC	417	0.75	0.10	282 ^b	469 ^b	30	37	1 118	437
UPPER MANNVILLE S	460	0.80	0.05	350	294	56	39	2 172	665
GLAUCONITIC III	1 875	0.80	0.10	1 350			39		6 068
UPPER MANNVILLE LL	70	0.75	0.10	48			39		150
GLAUC III&U MANN LL TOTAL	1 945	0.80	0.10	1 398	621	777	39	30 101	
OTHER	7 392			4 459	1 629	2 830		106 905	
TOTAL-COUNTLESS	38 215			26 102	8 926	17 176		632 189	
COUTTS 001-16W4									
TOTAL-COUTTS	139			89		89		3 345	
COWLICK (SA) 058-06W6									
TOTAL-COWLICK	104			74		74		2 609	
COYOTE 028-15W4									
TOTAL-COYOTE	797			512	219	293		11 251	
CRAIGEND 064-13W4									
VIKING A	9 473	0.40	0.05	3 600	14	3 586	37	132 288	71 292
GRAND RAPIDS A	989	0.70	0.05	657	398	259	37	9 650	8 180
GRAND RAPIDS H	483	0.75	0.05	344	134	210	37	7 818	252
GRAND RAPIDS P	580	0.65	0.05	358	144	214	37	7 850	1 052
MCMURRAY C	1 578	0.60	0.05	900	612	288	37	10 564	14 299
GROSMONT A	5 613	0.45	0.05	2 400	2 207	193	37	7 162	36 190
OTHER	8 046			4 961	2 065	2 896		107 449	
TOTAL-CRAIGEND	26 762			13 220	5 574	7 646		282 781	
CRAIGMYLE 032-17W4									
BELLY RIVER A	1 306	0.80	0.05	993	387	606	37	22 161	8 646
OTHER	2 182			1 388	496	892		33 827	
TOTAL-CRAIGMYLE	3 488			2 381	883	1 498		55 988	
CRANBERRY 096-04W6									
BLSK-DETR-DBLT A	2 587	0.70	0.05	1 720	703	1 017	36	37 070	5 411
SLAVE POINT A	15 148	0.80	0.15	10 300	3 127	7 173	40	288 068	27 124
SLAVE POINT B	1 024	0.75	0.15	653	622	31	41	1 283	1 036
GLWD 096-04	618	0.80	0.10	444		444	38	17 023	797
OTHER	469			312		312		11 713	
TOTAL-CRANBERRY	19 846			13 429	4 452	8 977		355 157	
CRANFORD 008-19W4									
TOTAL-CRANFORD	113			74	69	5		173	
CRESSDAY (SA) 003-01W4									
TOTAL-CRESSDAY	62			45		45		1 665	
CROOKED 069-23W4									
TOTAL-CROOKED	571			368	42	326		12 096	
CROSSFIELD 026-01W5									
BASAL QUARTZ A	1 543	0.92	0.19	1 150	981	169	40	6 750	4 175
BASAL QUARTZ C	1 831	0.70	0.15	1 090	560	530	40	20 951	763
BASAL QUARTZ G	475	0.90	0.15	364	261	103	41	4 215	150
RUNDLE A	31 235	0.92	0.13	25 000	21 582	3 418	40	136 993	13 449
RUNDLE B	31 096	0.92	0.21	22 600	20 467	2 133	40	85 448	8 584
RUNDLE F	2 103	0.85	0.15	1 520	1 060	460	40	18 510	1 654
RUNDLE H	444	0.90	0.15	340	328	12	40	479	200
RUNDLE I	649	0.85	0.15	469	398	71	40	2 847	431
ELTN 12-029-02	549	0.85	0.15	397		397	40	15 936	400
WABAMUN A	37 500	0.75	0.52	13 500	11 013	2 487	36	90 651	29 146
OTHER	4 954			1 550	407	1 143		45 535	
TOTAL-CROSSFIELD	112 379			67 980	57 057	10 923		428 315	
CROSSFIELD EAST 029-01W5									
BASAL QUARTZ A	374	0.90	0.10	303	97	206	38	7 898	631

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.45	0.268	0.65	11 000	35	0.819	0.63	1 049.8	1967	1989	TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
3.69	0.240	0.75	10 420	49	0.841	0.64	1 279.2	1972	1986	TCPL KANNGAZ MATERIAL BALANCE
2.81	0.179	0.55	10 000	39	0.816	0.66	1 218.0	1954	1989	PART OF GLAUC POOL NO.6
6.90	0.150	0.40	10 000	38	0.817	0.65	1 218.3	1984	1986	PART OF GLAUC POOL NO.6
								1954	1988	TCPL PART OF GLAUC POOL NO.6
2.53	0.270	0.55	3 350	16	0.932	0.57	338.1	1949	1988	PROGAS PANALTA CWNGNUL VECTOR CNG TCPL PART OF VIK POOL NO.6
2.07	0.300	0.70	2 710	20	0.946	0.57	386.2	1962	1983	ESSO CWNGNUL TCPL
8.11	0.300	0.60	2 620	25	0.952	0.56	387.3	1969	1982	PANALTA MATERIAL BALANCE
6.90	0.295	0.80	2 420	18	0.952	0.56	369.2	1967	1986	PANALTA TCPL MATERIAL BALANCE
2.44	0.263	0.70	2 930	26	0.947	0.57	526.4	1953	1989	PANALTA CWNGNUL CNG TCPL MATERIAL BALANCE
9.90	0.105	0.55	2 830	25	0.948	0.56	501.1	1961	1989	CWNGNUL A&S TCPL PRODUCTION DECLINE
3.80	0.252	0.50	3 100	24	0.941	0.56	587.9	1951	1989	PROGAS PANALTA A&S SCEPTRE KANNGAZ TCPL ATCOR
7.86	0.172	0.30	5 500	30	0.907	0.58	750.0	1973	1987	PANALTA PART OF BLSKY-DETR-DBLT NO.1 MATERIAL BALANCE
5.78	0.069	0.70	21 270	90	0.833	0.83	2 231.2	1974	1989	PROGAS PANALTA ESSO
5.23	0.051	0.60	21 470	89	0.818	0.84	2 292.1	1980	1987	PROGAS AMOCO PRODUCTION DECLINE
4.07	0.130	0.55	19 550	82	0.885	0.64	2 320.9	1975	1979	PROGAS PANALTA
2.62	0.124	0.70	16 720	71	0.837	0.71	2 231.9	1957	1987	TCPL PRODUCTION DECLINE
5.53	0.113	0.65	17 190	70	0.847	0.68	2 114.2	1966	1988	TCPL PRODUCTION DECLINE
3.39	0.130	0.70	26 820	71	0.864	0.76	2 562.3	1965	1989	PRODUCTION DECLINE
11.75	0.115	0.90	22 900	81	0.875	0.71	2 560.7	1956	1988	A&S TCPL MATERIAL BALANCE PREVIOUS GAS CYCLING
20.72	0.084	0.85	21 110	71	0.830	0.76	2 263.7	1957	1988	TCPL MATERIAL BALANCE
8.20	0.111	0.75	22 720	83	0.874	0.72	2 503.6	1970	1986	A&S MATERIAL BALANCE
12.65	0.115	0.90	22 900	79	0.861	0.75	2 560.3	1961	1989	A&S TCPL PRODUCTION DECLINE
9.39	0.087	0.60	20 880	80	0.865	0.70	2 325.0	1972	1987	TCPL PRODUCTION DECLINE
7.05	0.116	0.80	22 020	75	0.858	0.71	2 520.0	1978	1988	PROGAS KANNGAZ
9.30	0.057	0.85	25 030	74	0.752	0.87	2 590.8	1954	1985	TCPL PRODUCTION DECLINE
2.41	0.154	0.80	19 890	60	0.852	0.63	2 305.8	1964	1987	TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CROSSFIELD EAST 029-01W5 (CONTINUED)									
ELKTON A SOLN	207	0.60	0.20	99b			41		
ELKTON A ASSOC	† 756	0.90	0.12	† 390b	† 323b	166	41	6 78†	964
ELKTON D SOLN	516	0.60	0.25	233b			42		
ELKTON D ASSOC	† 675	0.95	0.12	† 400b	† 215b	418	42	17 539	625
ELKTON C	859	0.85	0.10	657	544	113	40	4 554	440
WABAMUN A	33 333	0.80	0.55	12 000	9 714	2 286	37	83 439	24 085
WABAMUN B	1 091	0.75	0.45	450	243	207	39	8 054	3 316
OTHER	1 052			647	174	473		18 860	
TOTAL-CROSSFIELD EAST	40 863			17 179	13 310	3 869		147 125	
CROW (SA) 004-12W4									
TOTAL-CROW	24			16		16		567	
CRYSTAL 046-03W5									
VIKING A SOLN	1 343	0.43	0.15	490	228	262	42	10 876	
VIKING J	992	0.75	0.10	670	220	450	40	17 964	1 889
OTHER	814			486		486		19 575	
TOTAL-CRYSTAL	3 149			1 646	448	1 198		48 415	
CULP 079-24W5									
DBLT 078-24	558	0.90	0.10	452		452	38	17 113	† 160
OTHER	† 073			763		763		29 618	
TOTAL-CULP	† 631			† 215		† 215		46 731	
CUTBANK 064-09W6									
TOTAL-CUTBANK	860			597		597		23 448	
CUTPICK (SA) 060-06W6									
TOTAL-CUTPICK	77			56		56		2 242	
CYGNET 037-28W4									
TOTAL-CYGNET	2 875			1 785	207	1 578		63 634	
CYN-PEM 051-11W5									
ELLERSLIE A	357	0.85	0.10	273			41		929
ROCK CREEK A	1 852	0.75	0.10	1 250			39		3 403
ROCK CREEK A	119	0.75	0.10	80			39		200
ROCK CREEK H	93	0.70	0.10	59			40		200
ELRS A&R CREEK A&H TOTAL	2 421	0.75	0.10	1 662	434	1 228	40	48 604	
OTHER	2 422			1 248	125	1 123		44 743	
TOTAL-CYN-PEM	4 843			2 910	559	2 351		93 347	
CYPRESS (SA) 007-02W4									
TOTAL-CYPRESS	13			8		8		290	
CZAR 041-05W4									
TOTAL-CZAR	446			285		285		10 562	
DALEHURST 053-23W5									
TOTAL-DALEHURST	78			56		56		2 172	
DALEMEAD (SA) 022-26W4									
TOTAL-DALEMEAD	353			235		235		8 995	
DAPP 062-26W4									
TOTAL-DAPP	86			59	44	15		560	
DARWELL (SA) 054-05W5									
TOTAL-DARWELL	29			19		19		702	
DARWIN 094-18W5									
TOTAL-DARWIN	485			237		237		8 876	
DAVEY 034-27W4									
BELLY RIVER A	520	0.75	0.05	371	344	27	37	1 004	3 846
OTHER	1 296			746	84	662		24 420	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
10.33	0.062	0.80	20 860	77	0.840	0.74	2 268.9	1960	1989	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
						0.74		1960	1989	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
						0.76		1961	1989	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
10.16	0.106	0.85	20 910	77	0.824	0.76	2 307.9	1961	1989	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
14.89	0.090	0.80	19 140	77	0.849	0.70	2 313.1	1968	1989	TCPL PRODUCTION DECLINE
9.57	0.056	0.85	24 990	83	0.722	0.99	2 668.7	1960	1986	PROGAS PANALTA TCPL MATERIAL BALANCE
8.90	0.063	0.85	24 890	74	0.741	0.91	2 647.8	1959	1981	TCPL MATERIAL BALANCE
5.32	0.134	0.75	10 160	70	0.858	0.75 0.67	1 600.5	1978 1976	1989 1989	PROGAS TCPL KANNGAZ UNIGAS PSR
4.98	0.146	0.50	12 590	51	0.835	0.64	1 154.1	1973	1989	A&S
2.46	0.117	0.80	16 890	77	0.823	0.71	2 249.6	1974	1988	
4.58	0.093	0.75	17 500	76	0.837	0.71	2 248.9	1973	1989	
5.00	0.100	0.70	16 590	69	0.809	0.75	2 238.3	1987	1989	
3.96	0.110	0.65	16 890	79	0.834	0.72	2 213.2	1979 1973	1989 1989	
3.69	0.170	0.65	4 090	43	0.931	0.61	1 121.1	1974	1985	PROGAS CWNGNUL KANNGAZ TCPL MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
DAVEY 034-27W4 (CONTINUED) TOTAL-DAVEY	1 816			1 117	428	689		25 424	
DAWN (SA) 080-26W5 TOTAL-DAWN	11			5		5		194	
DAWSON 080-16W5 TOTAL-DAWSON	413			257		257		9 559	
DEADMAN (SA) 082-19W4 TOTAL-DEADMAN	32			17		17		646	
DEADWOOD 091-23W5 TOTAL-DEADWOOD	119			79	49	30		1 073	
DEANNE 038-11W5 TOTAL-DEANNE	360			251	69	182		7 452	
DECRENE 071-02W5 CLEARWATER A	886	0.80	0.05	674	219	455	37	17 017	3 475
CLEARWATER B	769	0.80	0.05	584	12	572	38	21 593	4 996
OTHER	815			516	150	366		13 567	
TOTAL-DECRENE	2 470			1 774	381	1 393		52 177	
DEEP 065-03W5 TOTAL-DEEP	74			49		49		1 846	
DEER 024-07W4 TOTAL-DEER	604			397		397		14 615	
DELIA 032-19W4 BELLY RIVER A	1 442	0.70	0.05	959	629	330	37	12 134	6 149
OTHER	1 948			1 217	135	1 082		40 212	
TOTAL-DELIA	3 390			2 176	764	1 412		52 346	
DEMAY 048-19W4 TOTAL-DEMAY	113			72	16	56		2 108	
DERWENT 054-07W4 TOTAL-DERWENT	337			225	9	216		7 976	
DESMARAIS 080-25W4 TOTAL-DESMARAIS	73			45		45		1 679	
DETLOFF 081-10W6 TOTAL-DETLOFF	65			44		44		1 710	
DEVENISH 075-08W4 TOTAL-DEVENISH	74			38		38		1 384	
DEVIL 071-15W5 TOTAL-DEVIL	67			45		45		1 693	
DEWBERRY 053-04W4 TOTAL-DEWBERRY	233			164		164		6 008	
DICKINS (SA) 120-05W6 TOTAL-DICKINS	17			12		12		439	
DIMSDALE 071-07W6 PADDY A	2 210	0.80	0.05	1 680		1 680	38	64 109	1 608
PADY * 30-071-06	478	0.80	0.10	344		344	38	13 189	200
OTHER	194			141		141		5 526	
TOTAL-DIMSDALE	2 882			2 165		2 165		82 824	
DINA 045-01W4 TOTAL-DINA	459			306		306		11 035	
DINANT 047-19W4 TOTAL-DINANT	328			219	52	167		6 099	
DIVIDE 082-13W4 TOTAL-DIVIDE	606			379	127	252		9 371	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.43 1.93	0.281 0.282	0.60 0.60	4 340 4 390	30 20	0.924 0.904	0.56 0.60	543.4 550.0	1976 1975	1989 1989	PANALTA A&S ATCOR PANALTA ATCOR
5.37	0.239	0.55	3 240	22	0.940	0.56	639.4	1976	1988	UNIGAS PANALTA ESSO A&S TCPL CEL PSR
7.45 12.90	0.211 0.217	0.85 0.80	10 490 10 630	57 56	0.879 0.861	0.58 0.61	1 369.1 1 348.6	1980 1986	1987 1988	PROGAS A&S SHELL ESSO AMOCO A&S AMOCO

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
DIXONVILLE 086-01W6									
BLUESKY A	700	0.70	0.05	466	363	103	37	3 791	905
BLUESKY B	104	0.70	0.05	69			37		2 145
GETHING A	815	0.80	0.05	619			37		2 521
BLUESKY B & GETHING A TOTAL	919	0.80	0.05	688	463	225	37	8 422	
OTHER	1 868			1 211	255	956		35 238	
TOTAL-DIXONVILLE	3 487			2 365	1 081	1 284		47 451	
DIZZY (SA) 121-20W5									
TOTAL-DIZZY	133			90		90		3 368	
DOBSON 029-09W4									
TOTAL-DOBSON	479			318	134	184		6 709	
DOE 081-12W6									
KISKATINAW A	456	0.85	0.05	369			38		387
KISKATINAW A	211	0.75	0.05	150			38		195
KISKATINAW A	113	0.65	0.05	69			38		579
KISKATINAW A TOTAL	780	0.80	0.05	588	226	362	38	13 850	
OTHER	186			131	25	106		4 007	
TOTAL-DOE	966			719	251	468		17 857	
DOIG 090-11W6									
TOTAL-DOIG	130			86		86		3 221	
DOLCY 041-04W4									
TOTAL-DOLCY	149			99		99		3 491	
DONALDA 041-18W4									
VIKING A		0.74	0.05				37		2 540
VIKING C		0.74	0.05				37		5 908
VIKING D		0.74	0.05				36		525
VIKING A, C & D TOTAL	622	0.75	0.05	437	414	23	37	847	
LOWER MANNVILLE G	405	0.80	0.05	308	4	304	38	11 452	1 765
OTHER	2 579			1 707	312	1 395		52 279	
TOTAL-DONALDA	3 606			2 452	730	1 722		64 578	
DORENLEE 043-20W4									
TOTAL-DORENLEE	203			127	57	70		2 575	
DORIS 063-06W5									
UPPER MANNVILLE A	497	0.85	0.10	380	7	373	40	14 778	771
OTHER	325			245	9	236		8 839	
TOTAL-DORIS	822			625	16	609		23 617	
DOSBURN (SA) 002-03W4									
TOTAL-DOSBURN	43			30		30		1 110	
DOUCETTE 078-02W5									
TOTAL-DOUCETTE	366			247		247		9 242	
DOWLING LAKE 032-15W4									
TOTAL-DOWLING LAKE	298			207	68	139		5 286	
DRIFTPILE (SA) 073-13W5									
TOTAL-DRIFTPILE	43			28		28		1 047	
DRIFTWOOD 077-22W4									
TOTAL-DRIFTWOOD	443			262		262		9 674	
DROWNED 076-23W4									
TOTAL-DROWNED	495			315	189	126		4 698	
DRUMHELLER 029-19W4									
MANNVILLE F SOLN	20	0.65	0.10	12 ^b			39		
MANNVILLE F ASSOC	596	0.90	0.10	482 ^b	296 ^b	198	39	7 770	1 267
MANNVILLE G	401	0.85	0.10	307	126	181	39	7 023	842
MANNVILLE M	402	0.80	0.05	306	282	24	40	949	440
MANNVILLE W	485	0.80	0.10	349	298	51	38	1 959	440
MANNVILLE CC	667	0.80	0.10	481	154	327	38	12 544	1 914
OTHER	6 805			4 375	2 160	2 215		85 748	
TOTAL-DRUMHELLER	9 376			6 312	3 316	2 996		115 993	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.67 0.64 3.80	0.220 0.220 0.212	0.65 0.55 0.65	8 230 6 070 6 020	30 33 34	0.867 0.903 0.903	0.58 0.56 0.56	784.5 727.9 742.3	1972 1952 1952	1989 1986 1979	PANALTA VECTOR TCPL PRODUCTION DECLINE PROGAS PANALTA CWNGNU
7.12 4.72 2.49	0.125 0.134 0.069	0.70 0.85 0.60	20 730 21 490 21 100	77 71 80	0.890 0.884 0.895	0.62 0.62 0.62	2 377.4 2 391.3 2 445.3	1965 1965 1965	1987 1987 1987	PROGAS
1.31 2.05 0.91	0.140 0.200 0.157	0.55 0.55 0.55	6 280 6 280 6 280	42 42 42	0.908 0.908 0.912	0.58 0.58 0.58	997.4 1 008.4 1 037.5	1960 1957 1960	1986 1986 1986	PRODUCTION DECLINE PRODUCTION DECLINE ESSO CNG TCPL
2.16	0.187	0.65	8 460	45	0.866	0.64	1 193.3	1986	1989	TCPL
3.87	0.240	0.70	9 000	39	0.828	0.64	982.4	1972	1975	PANALTA TCPL
2.76 2.80 2.47 4.70 2.64	0.204 0.226 0.170 0.227 0.198	0.75 0.70 0.65 0.70 0.65	9 990 9 550 9 380 9 770 9 970	40 37 38 39 52	0.815 0.815 0.810 0.836 0.851	0.65 0.65 0.66 0.62 0.64	1 285.8 1 208.8 1 340.2 1 246.0 1 305.9	1950 1950 1964 1973 1976	1989 1989 1983 1989 1982 1983	TCPL CONCURRENT PRODUCTION TCPL CONCURRENT PRODUCTION TCPL TCPL PRODUCTION DECLINE POCO TCPL MATERIAL BALANCE UNIGAS PANALTA A&S METHON TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
DUAGH (SA) 055-23W4 TOTAL-DUAGH	15			10		10		367	
DUHAMEL 045-21W4 TOTAL-DUHAMEL	1 028			557	82	475		18 458	
DUNCAN 074-15W4 MCMURRAY F	969	0.65	0.05	599	404	195	37	7 244	22 792
GROSMONT B	2 871	0.55	0.05	1 500	1 181	319	37	11 774	19 562
OTHER	852			510	1	509		18 818	
TOTAL-DUNCAN	4 692			2 609	1 586	1 023		37 836	
DUNVEGAN 081-04W6 GETHING B	1 226	0.55	0.05	640	410	230	38	8 775	2 484
DEBOLT A	4 764	0.80	0.05	3 620			39		10 221
DEBOLT B	19 343	0.80	0.05	14 700			39		12 888
DEBOLT C	12 158	0.80	0.05	9 240			39		10 218
DEBOLT D	265	0.70	0.10	167			39		200
DEBOLT D	40	0.70	0.10	25			39		200
DEBOLT D	241	0.70	0.10	152			39		200
DEBOLT D	186	0.70	0.10	117			39		200
DEBOLT A,B,C & D TOTAL	36 997	0.80	0.05	28 021	15 328	12 693	39	490 077	
OTHER	5 413			3 790	745	3 045		115 904	
TOTAL-DUNVEGAN	43 636			32 451	16 483	15 968		614 756	
DUVERNAY 055-12W4 VIKING A	1 676	0.40	0.05	637			37		37 319
VIKING M	60	0.40	0.05	23			37		1 780
VIKING A & M TOTAL	1 736	0.40	0.05	660	172	488	37	18 012	
COLONY B	1 742	0.60	0.05	993	146	847	37	31 695	4 920
OTHER	5 028			3 430	856	2 574		95 802	
TOTAL-DUVERNAY	8 506			5 083	1 174	3 909		145 509	
DYBERG 044-23W4 TOTAL-DYBERG	449			307		307		11 516	
DYSON (SA) 018-05W5 TOTAL-DYSON	227			153		153		5 675	
EAGLE BUTTE 007-05W4 TOTAL-EAGLE BUTTE	443			314	23	291		10 704	
EAGLESHAM 077-25W5 DEBOLT A	548	0.75	0.10	370		370	39	14 426	742
DEBOLT E	92	0.75	0.10	62			39		200
DEBOLT G	306	0.90	0.10	248			39		402
DEBOLT E & G TOTAL	398	0.85	0.10	310	108	202	39	7 801	
WAB 32-077 ASSOC	544	0.80	0.10	392		392	33	12 826	200
WAB 34-077-25	777	0.85	0.15	561		561	33	18 777	200
OTHER	1 569			1 111	265	846		31 765	
TOTAL-EAGLESHAM	3 836			2 744	373	2 371		85 595	
EAGLESHAM NORTH 078-25W5 TOTAL-EAGLESHAM NORTH	436			285	65	220		7 956	
EARRING 083-08W5 TOTAL-EARRING	1 287			888	54	834		31 876	
ECONOMY (SA) 068-02W6 TOTAL-ECONOMY	52			35		35		1 353	
EDBERG 044-19W4 TOTAL-EDBERG	303			194	6	188		6 954	
EDGERTON 045-04W4 TOTAL-EDGERTON	1 234			830	331	499		17 807	
EDMONTON (SA) 053-25W4 TOTAL-EDMONTON	37			23		23		865	
EDRA (SA) 099-24W4 TOTAL-EDRA	105			70		70		2 442	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.88 9.89	0.283 0.120	0.40 0.30	2 030 2 050	27 27	0.963 0.963	0.57 0.57	535.3 576.9	1971 1972	1989 1988	PRODUCTION DECLINE
2.94 3.44 9.68 7.41 9.10 1.20 6.70 6.60	0.241 0.153 0.166 0.160 0.130 0.150 0.150 0.130	0.75 0.60 0.60 0.60 0.65 0.65 0.70 0.70	9 080 13 620 14 330 15 340 15 910 15 910 15 910 14 700	41 49 49 49 49 49 49 54	0.885 0.815 0.813 0.810 0.816 0.817 0.821 0.826	0.59 0.65 0.65 0.65 0.63 0.63 0.63 0.64	919.4 1 437.5 1 461.6 1 495.4 1 552.8 1 549.0 1 537.3 1 534.5	1971 1963 1963 1952 1972 1972 1972 1952	1989 1989 1989 1989 1989 1989 1989 1989	A&S PRODUCTION DECLINE DEEP CUT SL DEEP CUT SL DEEP CUT SL DEEP CUT SL TP/BS TVD, DPCT SL, AS WELL 13-12-80-3W6 DEEP CUT SL DEEP CUT SL, ASSIGNED WELL 1-29-80-2W6 DEEP CUT SL, ASSIGNED WELL 6-22-80-3W6 A&S DEEP CUT SL
0.89 0.95	0.242 0.205	0.50 0.50	3 930 3 290	18 17	0.921 0.933	0.57 0.58	477.0 435.3	1949 1953 1949	1989 1988 1988	PART OF VIK POOL NO.6 PART OF VIK POOL NO.6 PANALTA CWNGNUL TCPL KANNGAZ PART OF VIK POOL NO.6 PANALTA CWNGNUL KANNGAZ TCPL
3.92	0.270	0.75	4 300	25	0.920	0.57	532.6	1972	1984	
3.35 2.74 3.39	0.180 0.140 0.182	0.75 0.75 0.80	14 450 15 410 14 530	47 58 53	0.787 0.829 0.821	0.67 0.64 0.64	1 370.8 1 412.0 1 435.7	1959 1976 1952	1989 1982 1980	PANALTA CANOXY A&S
23.00 58.80	0.068 0.040	0.85 0.85	22 050 22 060	72 82	0.889 0.910	0.73 0.73	2 045.5 2 043.5	1988 1988	1988 1989	PANALTA CANOXY DIRECT AEC BER DIRECT CANOXY BER

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
EDSON 052-18W5									
CARDIUM C SOLN	1 231	0.65	0.25	600 ^b			42		
CARDIUM C ASSOC	2	0.75	0.15	2 ^b	317 ^b	285	42	11 910	200
CARDIUM K ASSOC	6	0.65	0.10	4			42		64
CARDIUM K SOLN	1 027	0.65	0.15	568			42		
CARDIUM I, K, P & AAA TOTAL	1 033	0.65	0.15	572	441	131	42	5 506	
CARD SD * 06-051-18	481	0.90	0.10	390		390	40	15 522	400
VIKING A	847	0.85	0.10	648	620	28	40	1 114	440
VIKING B	3 704	0.75	0.10	2 500	976	1 524	39	59 985	5 314
VIKING D	1 765	0.85	0.10	1 350	877	473	39	18 537	1 319
GETHING A	6 750	0.80	0.05	5 130	3 939	1 191	40	47 783	4 029
ROCK CREEK A	544	0.90	0.10	441		441	41	17 953	200
ELKTON A		0.85	0.10				39		45 364
SHUNDA A		0.85	0.10				39		440
SHUNDA B		0.85	0.10				39		440
ELK A, SHUN A & B TOTAL	56 470	0.85	0.10	43 200	37 769	5 431	39	209 419	
BLUERIDGE B	1 799	0.85	0.15	1 300	288	1 012	39	39 094	3 338
OTHER	5 164			3 059	351	2 708		107 328	
TOTAL-EDSON	79 790			59 192	45 578	13 614		534 151	
EDWARD 060-16W4									
GRAND RAPIDS A	153	0.70	0.05	102			37		1 332
GRAND RAPIDS C	307	0.70	0.05	204			37		1 845
GRAND RAPIDS D	37	0.70	0.05	25			37		200
GRAND RAPIDS F	16	0.75	0.05	11			37		254
GRAND RAPIDS A, C, D & F TOTAL	513	0.70	0.05	342	225	117	37	4 376	
NISKU A	583	0.60	0.05	333	111	222	37	8 250	1 072
NISKU D	1 240	0.60	0.05	707	383	324	36	11 739	1 783
OTHER	4 246			2 761	995	1 766		66 047	
TOTAL-EDWARD	6 582			4 143	1 714	2 429		90 412	
ELIZA 055-08W4									
TOTAL-ELIZA	484			328		328		12 170	
ELK POINT 056-07W4									
TOTAL-ELK POINT	279			196	151	45		1 652	
ELKWATER (SA) 008-04W4									
TOTAL-ELKWATER	17			10		10		359	
ELLERSLIE 051-24W4									
TOTAL-ELLERSLIE	59			37	37				
ELLS (SA) 095-16W4									
TOTAL-ELLS	309			210		210		7 747	
ELLSCOTT 064-21W4									
TOTAL-ELLSCOTT	279			192	10	182		6 849	
ELMWORTH 070-11W6									
CADOTTE A	3 689	0.60	0.10	1 880	262	1 618	39	62 600	7 711
CADOTTE C	910	0.60	0.10	472	2	470	39	18 184	2 391
CADOTTE D	732	0.60	0.10	388	16	372	39	14 486	1 784
FALHER A-2	1 025	0.85	0.15	740			40		12 727
FALHER A-4	245	0.75	0.15	156			40		2 479
FALHER A-10	7 613	0.85	0.15	5 500			39		20 277
FALHER B-1	3 460	0.85	0.15	2 500			39		12 007
FALHER C-2	56	0.75	0.15	36			40		250
FALHER C-3	43	0.75	0.20	26			38		250
FALHER A2, 4, 10, B1C2&3 TOTAL	12 442	0.85	0.15	8 958	4 969	3 989	39	156 050	
FALHER A-1	10 284	0.85	0.15	7 430			39		34 068
FALHER A-5	379	0.70	0.15	225			39		3 849
FALHER A-7	252	0.85	0.15	182			39		2 199
FALHER A-16	32	0.75	0.15	20			39		500
FALHER B-3	3 709	0.85	0.15	2 680			39		9 630
FALHER B-4	5 273	0.85	0.15	3 810			39		13 542
FALHER B-5	16	0.75	0.20	10			41		128
FALHER B-14	212	0.85	0.15	153			39		794
FALHER B-15	57	0.75	0.05	41			38		250
FALHER D-2	892	0.85	0.10	682			39		2 876
FALHER D-3	32	0.75	0.15	20			39		250
FALHER MU NO. 1 TOTAL	21 138	0.85	0.15	15 253	7 803	7 450	39	293 307	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DATE YEAR	DATE REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
0.13	0.040	0.85	15 910	68	0.765	0.78	1 940.7	1972	1989	TCPL A&S GPP
0.70	0.150	0.75	10 670	59	0.793	0.74	1 938.8	1972	1989	TCPL A&S GPP
						0.74		1972	1987	SOLN MU-CARDIUM I.K.P8AA
								1972	1987	SOLN MU-CARDIUM I.K.P8AA
								1972	1987	A&S TCPL
7.55	0.129	0.60	20 240	67	0.823	0.71	2 216.8	1976	1989	NRTHRGE
3.70	0.130	0.60	39 210	83	1.046	0.65	2 802.9	1974	1989	TCPL PRODUCTION DECLINE DEEP CUT SL
2.51	0.127	0.80	22 150	87	0.890	0.66	2 509.3	1973	1985	PANALTA ESSO TCPL MATERIAL BALANCE
3.77	0.167	0.85	21 540	87	0.895	0.63	2 453.3	1966	1989	NRTHRGE ESSO TCPL MATERIAL BALANCE
11.28	0.098	0.75	23 150	83	0.866	0.72	2 542.3	1963	1987	TCPL MATERIAL BALANCE
11.00	0.110	0.75	37 500	76	1.019	0.65	2 904.1	1977	1983	TCPL
6.25	0.104	0.90	26 600	102	0.951	0.65	2 840.1	1962	1984	PRODUCTION DECLINE
4.88	0.034	0.75	26 790	109	0.961	0.64	2 982.0	1964	1981	PRODUCTION DECLINE
4.88	0.040	0.80	26 810	103	0.955	0.64	3 027.7	1964	1981	PRODUCTION DECLINE
								1962	1981	TCPL
3.70	0.068	0.75	30 460	104	0.967	0.68	2 996.7	1978	1988	PROGAS TCPL CEL
1.51	0.325	0.60	3 740	22	0.927	0.57	531.2	1951	1982	
2.25	0.297	0.65	3 690	22	0.928	0.57	527.7	1951	1989	
2.40	0.290	0.70	3 790	30	0.933	0.58	539.4	1951	1989	
0.83	0.300	0.65	3 790	30	0.933	0.57	535.0	1951	1988	
								1951	1989	PROGAS TCPL
3.43	0.160	0.75	3 440	23	0.936	0.56	647.6	1972	1983	TCPL PRODUCTION DECLINE
16.70	0.155	0.80	3 430	23	0.937	0.57	670.6	1972	1985	AMOCO TCPL MATERIAL BALANCE
4.03	0.096	0.65	12 870	64	0.862	0.61	1 858.3	1970	1989	PANALTA AMOCO ESSO TCPL DEEP CUT SL
3.32	0.106	0.70	12 160	64	0.866	0.61	1 658.9	1978	1985	PANALTA TCPL DEEP CUT SL
4.38	0.095	0.70	12 700	64	0.858	0.62	1 793.6	1978	1986	PANALTA TCPL DEEP CUT SL
2.45	0.044	0.50	15 400	71	0.852	0.64	2 101.6	1977	1987	DEEP CUT SL
2.06	0.058	0.55	15 470	71	0.852	0.64	2 074.6	1978	1985	DEEP CUT SL
5.17	0.078	0.65	15 030	72	0.865	0.63	2 054.3	1977	1989	DEEP CUT SL, NONCOMMERCIAL OIL
4.40	0.081	0.60	13 920	69	0.859	0.63	1 917.0	1955	1986	DEEP CUT SL
3.09	0.080	0.60	15 570	71	0.851	0.63	2 034.0	1977	1988	DEEP CUT SL
1.50	0.080	0.70	22 750	85	0.877	0.72	2 103.8	1978	1988	DEEP CUT SL
								1955	1988	PROGAS PANALTA AMOCO A&S HOME ESSO TCPL
4.28	0.081	0.60	14 940	71	0.851	0.64	1 991.8	1970	1989	DEEP CUT SL
1.77	0.059	0.65	14 800	69	0.849	0.63	1 998.4	1976	1987	DEEP CUT SL
2.05	0.065	0.60	14 090	64	0.828	0.67	1 939.4	1978	1987	DEEP CUT SL
3.75	0.033	0.35	15 560	76	0.869	0.63	2 239.2	1980	1988	DEEP CUT SL
6.21	0.073	0.65	13 550	69	0.862	0.62	1 845.7	1978	1986	DEEP CUT SL
5.07	0.077	0.65	15 630	69	0.847	0.65	2 053.6	1976	1989	DEEP CUT SL
2.02	0.061	0.70	15 120	81	0.852	0.67	1 995.8	1979	1985	DEEP CUT SL
3.12	0.100	0.65	13 640	69	0.861	0.62	1 937.1	1955	1986	DEEP CUT SL
6.00	0.050	0.55	15 570	82	0.896	0.59	2 255.0	1980	1988	DEEP CUT SL
3.26	0.096	0.65	15 340	66	0.844	0.63	1 959.3	1976	1988	DEEP CUT SL
1.83	0.070	0.70	14 550	70	0.857	0.63	2 016.0	1978	1988	DEEP CUT SL
								1955	1988	PROGAS PANALTA AMOCO TCPL DEEP CUT SL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ELMWORTH 070-11W6 (CONTINUED)									
FALH 25-069-07	505	0.85	0.15	365		365	40	14 447	500
FALHER B-2	1 398	0.85	0.15	1 010	343	667	39	26 200	2 180
FALHER B-9	1 232	0.85	0.15	890	720	170	39	6 678	5 526
FALHER B-11	480	0.75	0.15	306	212	94	40	3 730	250
FALHER B-12	874	0.85	0.15	632	582	50	39	1 964	1 757
BLSK 070-06	1 005	0.80	0.20	643		643	40	25 566	1 191
BLSK 070-05	664	0.90	0.20	478		478	40	19 010	2 039
CADOMIN A	7 950	0.70	0.15	4 730	71	4 659	38	178 486	27 459
HALFWAY A	660	0.70	0.25	347		347	37	12 884	1 058
HALFWAY B	507	0.85	0.20	345	1	344	41	14 156	1 064
OTHER	13 613			8 596	661	7 935		310 733	
TOTAL-ELMWORTH	67 799			45 293	15 642	29 651		1 158 481	
ELNORA 035-22W4									
UPPER MANNVILLE A	610	0.75	0.05	435	333	102	38	3 846	4 004
OTHER	1 882			1 253	396	857		33 121	
TOTAL-ELNORA	2 492			1 688	729	959		36 967	
EMPRESS 024-02W4									
TOTAL-EMPRESS	255			183		183		6 665	
ENCHANT 014-16W4									
BOW ISLAND I	435	0.80	0.05	331	275	56	35	1 980	6 989
BASAL COLORADO A	780	0.85	0.05	630	574	56	38	2 102	4 375
UPPER MANNVILLE E	828	0.85	0.05	669	54	615	36	22 306	4 088
UPPER MANNVILLE L	499	0.90	0.10	404	41	363	37	13 391	1 830
UPPER MANNVILLE R	1 250	0.85	0.10	957	64	893	37	33 309	870
OTHER	5 697			3 881	1 246	2 635		94 035	
TOTAL-ENCHANT	9 489			6 872	2 254	4 618		167 123	
ENDIANG 035-16W4									
UPPER MANNVILLE B	508	0.65	0.05	314	178	136	38	5 164	608
OTHER	348			240	104	136		5 106	
TOTAL-ENDIANG	856			554	282	272		10 270	
ENDONA (SA) 006-09W4									
TOTAL-ENDONA	18			13		13		494	
ENTICE 028-24W4									
BELLY RIVER P	562	0.60	0.05	320	254	66	37	2 413	1 247
BELLY RIVER B	687	0.90	0.05	587			37		3 359
BELLY RIVER K	624	0.90	0.05	534			36		7 401
BELLY RIVER B & K TOTAL	1 311	0.90	0.05	1 121	960	161	37	5 881	
OTHER	1 055			565	311	254		9 222	
TOTAL-ENTICE	2 928			2 006	1 525	481		17 516	
ERITH 048-17W5									
TOTAL-ERITH	519			375		375		15 175	
ERSKINE 039-21W4									
BLAIRMORE		0.80	0.10				39		433
BLAIRMORE		0.80	0.10				38		851
BLAIRMORE TOTAL	1 175	0.80	0.10	846	628	218	39	8 443	
D-3 SOLN	537	0.65	0.50	175 ^b			37		
D-3 ASSOC	840	0.85	0.15	607 ^b	480 ^b	302	37	11 114	1 105
OTHER	3 515			2 277	688	1 589		60 249	
TOTAL-ERSKINE	6 067			3 905	1 796	2 109		79 806	
ESTHER 031-02W4									
VIKING A ASSOC	1 448	0.80	0.05	1 100		1 100	37	40 843	9 508
UPPER MANNVILLE A	586	0.80	0.05	446	254	192	37	7 094	1 846
BANFF A	911	0.90	0.05	779	731	48	38	1 813	400
OTHER	3 014			2 058	727	1 331		49 875	
TOTAL-ESTHER	5 959			4 383	1 712	2 671		99 625	
ESTUARY 023-22W4									
TOTAL-ESTUARY	609			408	104	304		11 535	
ETHEL LAKE 065-03W4									
GRAND RAPIDS A	569	0.65	0.05	352	234	118	37	4 399	1 334

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
8.05	0.117	0.70	15 690	70	0.849	0.64	1 689.3	1979	1988	PROGAS DEEP CUT SL
5.27	0.113	0.70	15 150	69	0.855	0.62	1 874.3	1977	1986	TCPL DEEP CUT SL
4.03	0.062	0.60	15 290	69	0.855	0.62	2 127.6	1978	1987	TCPL DEEP CUT SL
5.52	0.080	0.70	14 890	80	0.866	0.64	1 977.0	1981	1989	TCPL MATERIAL BALANCE DEEP CUT SL
5.81	0.078	0.65	15 320	69	0.855	0.62	1 883.4	1979	1989	TCPL PRODUCTION DECLINE DEEP CUT SL
5.23	0.144	0.70	15 620	65	0.821	0.68	1 848.6	1979	1989	DEEP CUT SL
2.80	0.112	0.65	16 250	73	0.836	0.68	1 739.6	1981	1989	DEEP CUT SL
4.88	0.050	0.60	18 810	88	0.887	0.65	2 538.6	1977	1987	PROGAS PANALTA TCPL PART OF COM POOL NO. 1
4.73	0.080	0.65	29 750	89	0.921	0.70	2 642.0	1978	1980	DEEP CUT SL
2.95	0.112	0.70	24 130	101	0.891	0.73	2 317.5	1981	1988	TCPL BER
										PROGAS DEEP CUT SL
1.41	0.186	0.70	8 200	48	0.876	0.62	1 544.6	1969	1987	CNG TCPL
1.05	0.156	0.60	5 940	24	0.899	0.58	718.4	1972	1989	PANALTA AMOCO CWNGNUL SCEPTRE TCPL
1.46	0.199	0.70	8 800	30	0.826	0.65	875.7	1968	1989	TCPL MATERIAL BALANCE
1.26	0.202	0.65	10 820	32	0.824	0.63	996.6	1966	1988	PROGAS PANALTA ESSO TCPL NONCOMMERCIAL OIL
1.85	0.197	0.60	10 830	33	0.807	0.66	986.2	1966	1982	TCPL
9.09	0.176	0.70	11 130	32	0.809	0.64	1 001.2	1971	1989	PANALTA TCPL
2.89	0.192	0.60	7 880	34	0.857	0.62	1 162.8	1981	1989	A&S PRODUCTION DECLINE NONCOMMERCIAL OIL
5.71	0.230	0.60	2 960	35	0.952	0.57	741.4	1974	1985	CWNGNUL TCPL PRODUCTION DECLINE
7.14	0.214	0.60	2 960	30	0.948	0.58	791.6	1969	1988	MATERIAL BALANCE
2.93	0.208	0.55	3 240	29	0.942	0.58	821.9	1969	1988	PRODUCTION DECLINE
								1969	1988	CWNGNUL TCPL
2.87	0.130	0.60	9 650	55	0.854	0.65	1 353.3	1952	1980	PRODUCTION DECLINE
6.59	0.160	0.70	9 590	53	0.858	0.64	1 352.5	1952	1981	PRODUCTION DECLINE
						0.74		1952	1981	TCPL
9.41	0.063	0.80	15 340	60	0.818	0.74	1 631.6	1952	1986	GULF TCPL CONCURRENT PRODUCTION
								1952	1986	GULF TCPL CONCURRENT PRODUCTION
1.81	0.214	0.55	6 470	24	0.869	0.61	695.9	1969	1989	POCO MIP
2.08	0.270	0.70	7 450	27	0.875	0.57	752.8	1969	1989	MATERIAL BALANCE
5.81	0.190	0.70	8 130	29	0.855	0.59	849.8	1957	1986	
3.73	0.274	0.70	2 080	14	0.956	0.56	354.9	1966	1989	PRODUCTION DECLINE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ETHEL LAKE 065-03W4 (CONTINUED)									
OTHER	72			40	16	24		883	
TOTAL-ETHEL LAKE	641			392	250	142		5 282	
ETZIKOM 006-08W4									
BOW ISLAND A	1 909	0.75	0.05	1 360	1 301	59	37	2 159	10 266
OTHER	251			175	27	148		5 234	
TOTAL-ETZIKOM	2 160			1 535	1 328	207		7 393	
EUREKA (SA) 088-03W6									
TOTAL-EUREKA	95			60		60		2 285	
EVANSBURG (SA) 053-07W5									
TOTAL-EVANSBURG	139			99		99		3 796	
EVERGREEN (SA) 113-23W5									
TOTAL-EVERGREEN	9			5		5		185	
EVI 087-13W5									
TOTAL-EVI	5			4		4		148	
EWING LAKE 037-21W4									
TOTAL-EWING LAKE	327			166	88	78		2 851	
EXCELSIOR 086-24W4									
TOTAL-EXCELSIOR	911			605	339	266		10 085	
EXPANSE (SA) 088-04W6									
TOTAL-EXPANSE	132			88		88		3 275	
EYEHILL 041-06W4									
TOTAL-EYEHILL	123			79		79		2 800	
EYREMORE 018-18W4									
BOW ISLAND A	578	0.80	0.05	439	296	143	36	5 161	2 780
OTHER	1 168			784	144	640		23 505	
TOTAL-EYREMORE	1 746			1 223	440	783		28 666	
FAIRYDELL-BON ACCORD 057-24W4									
UPPER VIKING A	1 152	0.95	0.04	1 050			38		12 246
MIDDLE VIKING A	3 070	0.95	0.04	2 800			38		9 556
MIDDLE VIKING B	560	0.95	0.04	511			38		1 865
U VIK A & M VIK AB TOTAL	4 782	0.95	0.05	4 361	3 392	969	38	36 483	
BASAL MANNVILLE A ASSOC	514	0.90	0.10	417	155	262	37	9 807	1 039
BASAL MANNVILLE C SOLN	96	0.65	0.05	59b			36		
BASAL MANNVILLE C ASSOC	604	0.90	0.10	490b	415b	133	36	4 807	296
OTHER	771			454	96	358		13 453	
TOTAL-FAIRYDELL-BON ACCORD	6 767			5 781	4 059	1 722		64 550	
FAITH (SA) 003-12W4									
TOTAL-FAITH	105			75		75		2 749	
FARMINGTON 080-11W6									
KISKATINAW A	952	0.85	0.05	769	324	445	37	16 683	400
OTHER	494			352	37	315		11 939	
TOTAL-FARMINGTON	1 446			1 121	361	760		28 622	
FARRELL 034-16W4									
TOTAL-FARRELL	320			218	84	134		4 985	
FARROW 020-24W4									
TOTAL-FARROW	718			461	24	437		16 751	
FAWCETT (SA) 075-21W4									
TOTAL-FAWCETT	34			19		19		708	
FENN WEST 036-20W4									
TOTAL-FENN WEST	1 495			928	226	702		27 247	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.05	0.196	0.65	5 550	25	0.896	0.59	680.6	1951	1967	PWGE CTYMEDH MATERIAL BALANCE
2.61	0.172	0.55	7 830	29	0.876	0.57	953.0	1953	1986	PANALTA TCPL
1.46	0.240	0.50	5 110	27	0.902	0.59	800.5	1947	1989	PART OF VIK POOL NO.1
3.23	0.200	0.60	5 820	25	0.886	0.60	809.8	1947	1989	PART OF VIK POOL NO.1 MATERIAL BALANCE
2.79	0.200	0.60	5 820	37	0.897	0.60	778.1	1947	1984	PART OF VIK POOL NO.1 MATERIAL BALANCE
5.52	0.180	0.70	7 070	43	0.895	0.63	1 028.4	1951	1989	PANALTA CWNGNUL PART OF VIK POOL NO.1
						0.63		1965	1989	CWNGNUL CONCURRENT PRODUCTION
6.22	0.215	0.75	7 310	42	0.887	0.63	1 055.0	1965	1989	PANALTA TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
11.85	0.159	0.70	21 510	93	0.926	0.59	2 315.1	1977	1989	PANALTA

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
FENN-BIG VALLEY 035-20W4									
BELLY RIVER J	495	0.65	0.05	306	194	112	36	4 035	2 259
VIKING B	819	0.80	0.10	590	544	46	39	1 789	8 105
D-2 A ASSOC	49	0.75	0.30	26			42		65
D-2 A SOLN	6 160	0.64	0.55	1 774			42		
D-2 A ASSOC	28	0.75	0.30	15			42		78
D-2 A ASSOC	35	0.75	0.30	18			42		53
D-2 A ASSOC	251	0.75	0.30	132			42		190
D-2 A ASSOC	134	0.75	0.30	71			42		199
D-2 A TOTAL	6 657	0.65	0.55	2 036	1 678	358	42	14 872	
OTHER	1 978			1 121	301	820		30 896	
TOTAL-FENN-BIG VALLEY	9 949			4 053	2 717	1 336		51 592	
FENNER 032-14W4									
TOTAL-FENNER	157			101		101		3 704	
FERGUSON 003-17W4									
TOTAL-FERGUSON	30			21		21		799	
FERINTOSH 044-21W4									
TOTAL-FERINTOSH	636			396	189	207		7 775	
FERRIER 039-08W5									
CARDIUM D ASSOC		0.85	0.10				41		1 992
CARDIUM D SOLN	3 194	0.21	0.15	570b			41		
CARDIUM D ASSOC		0.85	0.10				40		1 791
CARDIUM D ASSOC		0.85	0.10				41		508
CARDIUM D ASSOC		0.85	0.10				41		1 266
CARDIUM D TOTAL	7 508	0.60	0.10	3 870b	3 731b	139	41	5 692	
CARDIUM E ASSOC	6 340	0.90	0.15	4 850b			41		4 761
CARDIUM E SOLN	6 197	0.17	0.20	842b			41		
CARDIUM E ASSOC	5 739	0.90	0.15	4 390b			41		4 523
CARDIUM E TOTAL	18 276	0.65	0.15	10 082b	8 167b	1 915	41	78 324	
CARDIUM G ASSOC	32	0.75	0.15	20			42		319
CARDIUM G SOLN	4 408	0.28	0.15	1 049			42		
CARDIUM G & E TOTAL	4 440	0.30	0.15	1 069	674	395	42	16 491	
CARDIUM Q	985	0.90	0.10	798			40		1 630
CARDIUM Z	327	0.85	0.10	250			40		1 314
CARDIUM Q & Z TOTAL	1 312	0.90	0.10	1 048	150	898	40	35 704	
CARDIUM FF	249	0.80	0.10	179			40		883
CARDIUM II	182	0.75	0.10	123			41		400
CARDIUM FF & II TOTAL	431	0.80	0.10	302	141	161	40	6 508	
CARDIUM N ASSOC	360	0.85	0.10	275b			41		440
CARDIUM N SOLN	786	0.65	0.15	434b			41		
CARDIUM B,N & VIK A TOTAL	1 146	0.70	0.15	709b	596b	113	41	4 610	
GLAUCONITIC B	580	0.88	0.10	459	245	214	40	8 513	256
PEK 02-043-10	501	0.75	0.20	301		301	39	11 601	200
OTHER	7 246			4 927	303	4 624		180 691	
TOTAL-FERRIER	41 440			22 767	14 007	8 760		348 134	
FERRYBANK 044-27W4									
BELLY RIVER C ASSOC	2 026	0.80	0.05	1 540b			37		7 639
BELLY RIVER C SOLN	532	0.65	0.50	173b			37		
BELLY RIVER G	4	0.60	0.05	2b			36		64
BELLY RIVER H	5	0.60	0.05	3b			36		64
BELLY RIVER C, G & H TOTAL	2 567	0.75	0.15	1 718b	821b	897	37	33 261	
VIKING A	1 248	0.60	0.20	599	185	414	46	19 007	8 392
GLAUCONITIC A	1 777	0.70	0.10	1 120	433	687	39	27 095	5 298
LOWER MANNVILLE I SOLN	12	0.65	0.10	7b			40		
LOWER MANNVILLE I ASSOC	497	0.80	0.10	358b	176b	189	40	7 554	612
LOWER MANNVILLE F	432	0.85	0.10	330	244	86	40	3 421	502
LOWER MANNVILLE S	1 041	0.85	0.10	797	236	561	40	22 210	1 842
LOWER MANNVILLE A		0.90	0.10				40		1 190
LOWER MANNVILLE B		0.90	0.10				40		1 214
LOWER MANNVILLE A & B TOTAL	765	0.90	0.10	620	581	39	40	1 546	
OTHER	3 305			2 311	766	1 545		60 993	
TOTAL-FERRYBANK	11 644			7 860	3 442	4 418		175 087	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	WELL YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
5.03	0.255	0.55	3 030	21	0.944	0.57	632.8	1951	1989	PART OF BR POOL NO.3 GULF PANALTA ESSO CONGRU. TCPL PART OF VIK POOL NO.4 PRODUCTION DECLINE
1.42	0.140	0.55	7 240	41	0.857	0.66	1 178.3	1952	1987	
4.48	0.118	0.85	12 750	48	0.668	0.94	1 597.1	1950	1988	
2.09	0.118	0.85	12 750	48	0.668	0.94	1 573.6	1950	1988	
3.89	0.118	0.85	12 750	48	0.668	0.94	1 596.7	1950	1984	
7.79	0.118	0.85	12 750	48	0.668	0.94	1 590.0	1950	1985	
3.96	0.118	0.85	12 750	48	0.668	0.94	1 778.4	1950	1984	
								1950	1988	
2.06	0.157	0.90	21 820	70	0.816	0.75	2 055.8	1963	1986	PRODUCTION DECLINE CONCURRENT PRODUCTION PRODUCTION DECLINE CONCURRENT PRODUCTION PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE ESSE TCPL CONCURRENT PRODUCTION CONCURRENT PRODUCTION CONCURRENT PRODUCTION A&S TCPL CONCURRENT PRODUCTION SOLN MU-CARDIUM G&L SOLN MU-CARDIUM G&L A&S TCPL PROGAS PANALTA NORCEN TCPL PROGAS PANALTA TCPL PRODUCTION DECLINE SOLN MU-CARDIUM B.N & VIK A. CONC PR PRODUCTION DECLINE SOLN MU-CARDIUM B.N & VIK A. CONC PR GPP ESSE PRODUCTION DECLINE PROGAS BER
1.86	0.177	0.90	21 820	70	0.819	0.75	2 035.0	1963	1986	
0.88	0.157	0.90	21 820	70	0.827	0.71	2 047.5	1963	1984	
1.55	0.104	0.75	21 820	70	0.833	0.70	2 026.7	1963	1984	
								1963	1989	
4.03	0.159	0.90	21 820	65	0.795	0.78	2 068.9	1965	1987	
3.84	0.159	0.90	21 820	65	0.795	0.78	2 059.8	1965	1987	
0.68	0.090	0.70	21 170	60	0.776	0.76	2 057.1	1966	1984	
2.86	0.125	0.80	22 000	73	0.856	0.68	2 247.1	1969	1984	
1.84	0.065	0.90	22 570	62	0.829	0.69	2 303.7	1975	1983	
1.72	0.091	0.75	24 110	63	0.851	0.67	2 314.7	1956	1987	PROGAS PANALTA TCPL PRODUCTION DECLINE SOLN MU-CARDIUM B.N & VIK A. CONC PR PRODUCTION DECLINE SOLN MU-CARDIUM B.N & VIK A. CONC PR GPP ESSE PRODUCTION DECLINE PROGAS BER
3.65	0.099	0.75	16 460	70	0.813	0.70	2 274.8	1956	1988	
2.40	0.126	0.90	22 340	83	0.845	0.75	2 233.3	1955	1989	
						0.75		1955	1989	
7.16	0.075	0.60	33 880	90	0.989	0.66	2 725.3	1984	1989	
12.80	0.110	0.80	24 360	78	0.887	0.68	2 914.2	1966	1982	
3.73	0.200	0.55	5 600	35	0.904	0.60	905.3	1955	1989	
						0.60		1955	1989	
2.00	0.180	0.45	3 400	26	0.936	0.59	786.8	1986	1989	
1.90	0.200	0.45	4 110	27	0.924	0.59	857.9	1986	1989	
1.89	0.126	0.55	8 060	45	0.635	0.96	1 443.8	1955	1989	TCPL PANALTA CONCURRENT PRODUCTION PROGAS PANALTA TCPL PWGE PROGAS PANALTA A&S TCPL METHON SOQUIP PART OF GLAUC POOL NO.3 A&S TCPL CONCURRENT PRODUCTION A&S TCPL CONCURRENT PRODUCTION TCPL MATERIAL BALANCE NONCOMMERCIAL OIL A&S TCPL MATERIAL BALANCE MATERIAL BALANCE PANALTA TCPL
4.00	0.139	0.50	11 940	64	0.835	0.68	1 566.7	1954	1989	
4.79	0.191	0.70	12 490	65	0.828	0.68	1 667.4	1981	1989	
2.39	0.160	0.80	12 710	45	0.775	0.70	1 587.7	1970	1984	
3.35	0.169	0.75	12 450	63	0.792	0.77	1 618.4	1980	1989	
2.36	0.204	0.75	13 340	63	0.803	0.73	1 710.3	1971	1985	
2.25	0.196	0.70	13 340	63	0.803	0.73	1 731.2	1971	1985	
								1971	1984	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
FIGURE LAKE 063-18W4 UPPER MANNVILLE B UPPER MANNVILLE Y UPPER MANNVILLE CC D-2 B UPPER MANN B.V. CC&D-2 TOTAL OTHER TOTAL-FIGURE LAKE	 2 515 4 176 6 691	 0.65 0.75 0.70 0.50 0.65	 0.04 0.05 0.05 0.05 0.05	 1 570 2 680 4 250	 1 342 815 2 157	 228 1 865 2 093	 37 38 38 37 37	 8 525 69 687 78 212	 735 179 256 7 665
FINDLEY 057-06W6 NORD 057-06 OTHER TOTAL-FINDLEY	 624 1 841 2 465	 0.85 	 0.15 	 451 1 245 1 696	 	 451 1 245 1 696	 38 	 16 944 46 712 63 656	 528
FIR 058-21W5 DUNV 07-06Q-22 GETTING A JUR SYS 04-057-20 TRIASSIC C D-3 A D-3 B LED 34-057-21 OTHER TOTAL-FIR	 633 1 075 655 9 974 3 556 921 4 214 2 815 23 843	 0.90 0.75 0.85 0.80 0.45 0.85 0.70	 0.10 0.10 0.15 0.07 0.25 0.25 0.20	 513 725 473 7 420 1 200 587 2 360 1 800 15 078	 522 20 3 505	 513 725 473 4 457 678 567 2 360 1 800 11 573	 40 39 37 38 37 37 37	 20 576 28 087 17 298 170 079 25 188 21 064 88 146 69 539 439 977	 200 2 443 200 22 527 1 080 128 128
FIRE 113-07W6 TOTAL-FIRE	 616			 381	 11	 370		 14 210	
FISHER 068-05W4 TOTAL-FISHER	 2 478			 1 282	 22	 1 260		 46 487	
FLAT 066-20W4 WABISKAW-WABAMUN A WABISKAW-WABAMUN A WABISKAW-WABAMUN A TOTAL OTHER TOTAL-FLAT	 5 564 1 429 6 993	 0.70 0.70 0.70	 0.05 0.05 0.05	 3 700 936 4 636	 2 613 222 2 835	 1 087 714 1 801	 37 37 37	 40 110 26 454 66 564	 6 640 8 138
FLOOD 085-25W5 TOTAL-FLOOD	 257			 159	 81	 78		 2 901	
FLORENCE (SA) 068-04W5 TOTAL-FLORENCE	 14			 9		 9		 332	
FLUME 062-08W5 TOTAL-FLUME	 38			 28		 28		 1 095	
FOLEY LAKE (SA) 066-06W5 TOTAL-FOLEY LAKE	 113			 86		 86		 3 324	
FOREMOST 006-11W4 BOW ISLAND OTHER TOTAL-FOREMOST	 566 42 608	 0.93 	 0.05 	 500 25 525	 432 4 436	 68 21 89	 36 	 2 466 704 3 170	 6 038
FORESTBURG 042-15W4 UPPER MANNVILLE R OTHER TOTAL-FORESTBURG	 832 3 646 4 478	 0.75 	 0.05 	 593 2 385 2 978	 46 482 528	 547 1 903 2 450	 37 	 20 195 70 135 90 330	 1 446
FORSYTH 062-06W4 TOTAL-FORSYTH	 827			 528	 38	 490		 18 149	
FORT ASSINIBOINE 062-04W5 TOTAL-FORT ASSINIBOINE	 404			 280		 280		 10 828	
FORT KENT 061-04W4 TOTAL-FORT KENT	 1 331			 827	 478	 349		 12 980	
FORT SASKATCHEWAN 054-22W4 UPPER VIKING A MIDDLE VIKING A		 0.85 0.85	 0.03 0.03				 36 36		 3 055 12 842

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.75 1.60 1.42 7.13	0.251 0.258 0.319 0.175	0.65 0.70 0.75 0.60	3 540 3 410 3 410 3 540	19 19 19 24	0.929 0.931 0.931 0.935	0.56 0.57 0.57 0.56	543.1 534.8 542.8 678.6	1958 1987 1987 1955 1955	1988 1988 1988 1989 1988	PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE METHON ESSO TCPL
7.82	0.112	0.55	28 530	77	0.945	0.61	2 375.8	1975	1988	CANOX BER TOP/BASE TWO
10.80 3.52 16.60 2.28	0.165 0.103 0.120 0.106	0.85 0.75 0.85 0.75	21 510 18 130 21 650 22 940	76 92 81 100	0.839 0.873 0.899 0.937	0.73 0.71 0.71 0.61	2 128.7 2 642.9 2 735.3 2 660.0	1976 1972 1980 1972	1978 1981 1980 1987	PROGAS TCPL PROGAS PROGAS PANALTA A&S TCPL MATERIAL BALANCE DEEP CUT SL PROGAS PANALTA TCPL KANNGAZ PSR PROGAS PANALTA A&S
24.74 42.00 197.03	0.067 0.080 0.082	0.85 0.90 0.85	30 710 31 170 33 380	117 115 121	0.958 0.960 1.005	0.69 0.69 0.66	3 353.2 3 372.8 3 518.5	1974 1980 1988	1985 1989 1989	
3.54 13.29	0.220 0.226	0.60 0.35	3 340 3 380	27 27	0.939 0.939	0.57 0.57	567.9 573.9	1956 1956 1956	1988 1988 1988	MATERIAL BALANCE MATERIAL BALANCE TCPL
1.52	0.200	0.80	4 830	27	0.918	0.57	692.5	1923	1981	CWNGNUL MATERIAL BALANCE
3.96	0.243	0.75	7 610	35	0.881	0.59	1 050.6	1982	1989	TCPL
0.80 6.43	0.210 0.210	0.60 0.60	5 550 5 550	33 33	0.905 0.905	0.60 0.60	780.9 780.9	1917 1917	1982 1982	PART OF VIK POOL NO.2 MATERIAL BALANCE PART OF VIK POOL NO.2 MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
FORT SASKATCHEWAN 054-22W4 (CONTINUED)									
U VIK A & M VIK A TOTAL	9 096	0.85	0.05	7 500	7 496	4	36	145	
OTHER	266			172	3	169		6 278	
TOTAL-FORT SASKATCHEWAN	9 362			7 672	7 499	173		6 423	
FORTY MILE 007-09W4									
LOWER MANNVILLE E	2 080	0.85	0.05	1 680	1 017	663	36	24 113	6 468
OTHER	757			534	94	440		15 834	
TOTAL-FORTY MILE	2 837			2 214	1 111	1 103		39 947	
FOSTER (SA) 033-27W4									
TOTAL-FOSTER	185			126		126		4 979	
FOURTH 082-09W6									
TOTAL-FOURTH	618			414		414		15 659	
FOX CREEK 061-18W5									
VIKING A	4 519	0.90	0.10	3 660	2 683	977	39	38 347	6 794
GETHING D ASSOC	177	0.70	0.05	118 ^b			39		150
GETHING D SOLN	39	0.65	0.30	18 ^b			39		
GETHING H ASSOC	5 909	0.75	0.05	4 210 ^b			39		10 031
GETHING D & H TOTAL	6 125	0.75	0.05	4 346 ^b	744 ^b	3 602	39	139 974	
OTHER	2 762			1 475	299	1 176		46 000	
TOTAL-FOX CREEK	13 406			9 481	3 726	5 755		224 321	
FRANCIS 073-22W4									
WABAMUN A	516	0.65	0.05	318		318	37	11 776	440
OTHER	410			264		264		9 754	
TOTAL-FRANCIS	926			582		582		21 530	
FRANCIS SOUTH 072-21W4									
TOTAL-FRANCIS SOUTH	148			89		89		3 050	
FRENCH (SA) 064-01W5									
TOTAL-FRENCH	158			112		112		4 187	
FURNESS (SA) 048-23W4									
TOTAL-FURNESS	75			52		52		1 993	
GADSBY 037-19W4									
BELLY RIVER J	2 526	0.65	0.05	1 560	500	1 060	37	38 997	10 233
OTHER	1 375			905	260	645		23 822	
TOTAL-GADSBY	3 901			2 465	760	1 705		62 819	
GAGE 082-03W6									
TOTAL-GAGE	601			413		413		15 539	
GALAHAD 040-15W4									
TOTAL-GALAHAD	975			631	1	630		22 554	
GAMBLER 070-21W4									
TOTAL-GAMBLER	1 141			687	177	510		18 999	
GARDEN PLAINS 033-13W4									
TOTAL-GARDEN PLAINS	461			306	155	151		5 711	
GARDNER (SA) 090-18W5									
TOTAL-GARDNER	31			22		22		800	
GARRINGTON 034-04W5									
VIKING A ASSOC	408	0.70	0.10	257 ^b			39		4 699
VIKING A SOLN	741	0.65	0.15	410 ^b			39		
VIKING A ASSOC	17	0.60	0.10	9 ^b			39		200
VIKING A ASSOC	15	0.55	0.10	7 ^b			39		200
VIKING A ASSOC	11	0.55	0.10	5 ^b			39		200
VIKING A ASSOC	15	0.55	0.10	7 ^b			39		200
VIKING A ASSOC	18	0.60	0.10	10 ^b			39		128
VIKING A TOTAL	1 225	0.65	0.15	705 ^b	183 ^b	522	39	20 489	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	ILLUSTRATION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
								1917	1982	CWNGNUL KANNGAZ PART OF VIK POOL NO.2
2.27	0.196	0.65	10 070	30	0.850	0.58	932.8	1965	1989	PANALTA CWNGNUL TCPL KANNGAZ
3.67	0.144	0.60	10 160	60	0.846	0.67	1 712.7	1957	1989	GULF A&S TCPL MATERIAL BALANCE
11.00	0.140	0.55	14 810	75	0.870	0.64	1 980.6	1957	1987	PART OF GETHING POOL NO.1 CONC PROD. SOLN
						0.64		1957	1987	MU-GETH D&H
5.22	0.131	0.65	14 110	75	0.870	0.63	1 941.2	1957	1989	PART OF GETHING POOL NO.1 CONC PROD. SOLN
								1957	1989	MU-GETH D&H
										PART OF GETHING POOL NO.1
										GULF PROGAS PANALTA TCPL A&S PART OF
										GETHING POOL NO.1 CONCURRENT PRODUCTION
23.75	0.250	0.80	2 420	20	0.952	0.57	548.6	1965	1983	BER
4.93	0.254	0.65	3 030	27	0.947	0.56	622.6	1951	1989	GULF CWNGNUL A&S POCO PART OF BR POOL NO.3
1.68	0.089	0.65	8 920	58	0.858	0.67	1 992.5	1977	1987	CONCURRENT PRODUCTION
1.82	0.084	0.65	8 920	63	0.866	0.67	2 133.3	1977	1987	CONCURRENT PRODUCTION
1.70	0.080	0.75	7 660	61	0.878	0.67	2 127.4	1977	1988	ASSIGNED WELL 14-32-034-03W5M
1.14	0.092	0.75	7 660	65	0.884	0.67	2 172.2	1977	1988	ASSIGNED WELL 06-30-035-03W5M
2.32	0.067	0.65	7 660	64	0.882	0.67	2 149.5	1977	1988	ASSIGNED WELL 10-13-035-04W5M
2.66	0.102	0.65	8 510	74	0.886	0.67	2 106.1	1977	1988	ASSIGNED WELL 01-25-035-04W5M
								1977	1987	ASSIGNED WELL 06-20-035-03W5M
										GULF UNIGAS PROGAS PANALTA ESSO VECTOR
										DEKALB TCPL PSR CONCURRENT PRODUCTION

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
GARRINGTON 034-04W5 (CONTINUED)									
VIKING P	524	0.85	0.10	401	200	201	40	8 084	400
MANNVILLE B SOLN	4 000	0.80	0.25	2 400	2 326	74	42	3 112	
MANNVILLE D SOLN	289	0.65	0.25	141b			41		
MANNVILLE D ASSOC	962	0.80	0.10	693b	609b	225	41	9 198	2 345
MANNVILLE R	200	0.75	0.10	135			40		250
LOWER MANNVILLE ZZ	521	0.85	0.15	377			41		250
MANN R & L MANN ZZ TOTAL	721	0.80	0.15	512	10	502	41	20 512	
ELKTON E	1 440	0.85	0.15	1 040	770	270	40	10 868	986
WABAMUN A SOLN	1 753	0.65	0.33	763b			39		
WABAMUN A ASSOC	8 709	0.85	0.33	4 960b	4 442b	1 281	39	49 421	13 888
LEDUC D SOLN	97	0.55	0.30	44b			40		
LEDUC D ASSOC	769	0.80	0.25	461b	20b	485	40	19 255	128
LED 10-035-04	837	0.80	0.20	536		536	40	21 177	200
OTHER	12 768			7 560	1 424	6 136		247 656	
TOTAL-GARRINGTON	34 094			20 216	9 984	10 232		409 772	
GARTH 064-06W4									
TOTAL-GARTH	438			265	57	208		7 747	
GARTLEY 031-18W4									
TOTAL-GARTLEY	571			365	96	269		10 158	
GATOR 118-03W6									
TOTAL-GATOR	115			73		73		2 770	
GAYFORD 026-25W4									
TOTAL-GAYFORD	1 294			754	364	390		14 403	
GENESEE 050-03W5									
TOTAL-GENESEE	536			373		373		14 475	
GEORGE 082-05W6									
KISKATINAW D	785	0.85	0.10	600	344	256	39	9 928	2 334
OTHER	736			506	28	478		18 069	
TOTAL-GEORGE	1 521			1 106	372	734		27 997	
GERE 062-08W5									
TOTAL-GERE	107			73		73		2 792	
GERMAIN (SA) 085-22W4									
TOTAL-GERMAIN	27			13		13		479	
GHOST PINE 031-22W4									
UPPER MANNVILLE V SOLN	144	0.65	0.10	85b			40		
UPPER MANNVILLE V ASSOC	287	0.80	0.05	219b	113b	191	40	7 560	444
UPPER MANNVILLE Q ASSOC	657	0.80	0.10	473b			40		1 129
UPPER MANNVILLE Y		0.75	0.10				40		6 935
UPPER MANNVILLE FF		0.75	0.10				40		8 320
UPPER MANN Q, Y & FF TOTAL	5 862	0.75	0.10	4 073b	2 530b	1 543	40	61 504	
UPPER MANNVILLE XX	392	0.85	0.10	300			40		523
LOWER MANNVILLE Q	53	0.70	0.10	33			38		150
U MANN XX & L MANN Q TOTAL	445	0.85	0.10	333	40	293	40	11 641	
UPPER MANNVILLE C		0.75	0.10				40		2 351
UPPER MANNVILLE U		0.85	0.10				39		971
UPPER MANNVILLE ZZZ		0.85	0.10				40		467
LOWER MANNVILLE A ASSOC		0.75	0.10				40		368
LOWER MANNVILLE A SOLN	40	0.60	0.20	19b			40		
LOWER MANNVILLE H ASSOC		0.75	0.10				40		150
URREP&LOWER MANN MU#1 TOTAL	1 739	0.85	0.10	1 319b	1 184b	135	40	5 399	
UPPER MANNVILLE H		0.75	0.10				39		1 366
UPPER MANNVILLE P ASSOC		0.75	0.10				40		6 432
UPPER MANN VVV		0.75	0.10				40		1 589
LOWER MANNVILLE R	50	0.75	0.10	34			40		150
LOWER MANNVILLE EE	35	0.75	0.10	23			37		
U&L MANNVILLE MU.NO.2 TOTAL	4 889	0.75	0.10	3 300	2 791	509	40	20 151	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEW	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
4.76	0.134	0.75	20 830	73	0.852	0.66 0.77 0.72	2 364.3	1979 1963 1968	1988 1988 1988	ESSO KANSAZ MATERIAL BALANCE CANGUL A&S TCPL GULF PROGAS PANALTA ESSO TCPL CONCURRENT PRODUCTION GULF PROGAS PANALTA ESSO TCPL CONCURRENT PRODUCTION
2.00	0.109	0.75	27 750	78	0.896	0.72	2 437.8	1968	1988	PROGAS ESSO GULF PROGAS ESSO DIRECT AMOCO GULF PROGAS PANALTA TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
3.60	0.129	0.85	20 550	73	0.834	0.71	2 505.9	1979	1989	GULF PROGAS PANALTA TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
9.60	0.119	0.85	21 300	74	0.813	0.76	2 536.1	1979 1979 1983	1989 1989 1988	GULF CONCURRENT PRODUCTION GULF CONCURRENT PRODUCTION TOP/BASE TVD
6.78	0.115	0.85	24 530	85	0.884	0.73 0.77	2 631.7	1983 1952	1988 1985	
8.47	0.048	0.80	24 720	74	0.856	0.77	2 644.4	1952	1985	
45.00	0.068	0.85	25 510	89	0.868	0.77	2 966.3	1985	1988	
35.50	0.070	0.90	20 590	93	0.855	0.78	3 136.7	1985	1989	
2.10	0.143	0.75	14 630	61	0.834	0.65	1 460.8	1973	1987	A&S TCPL
3.64	0.214	0.75	10 410	55	0.817	0.71	1 488.6	1956	1987	TCPL CONCURRENT PRODUCTION, OIL DEPLETED
4.54	0.182	0.65	10 340	55	0.828	0.68	1 466.8	1967	1987	TCPL CONCURRENT PRODUCTION, OIL DEPLETED
2.26	0.161	0.55	10 570	57	0.833	0.68	1 507.9	1966	1987	MATERIAL BALANCE
2.56	0.193	0.60	10 570	57	0.833	0.68	1 491.6	1961	1987	MATERIAL BALANCE
4.28	0.205	0.80	10 400	58	0.837	0.67	1 503.9	1976	1987	TCPL CONCURRENT PRODUCTION
2.78	0.160	0.70	10 220	48	0.800	0.74	1 522.8	1976	1988	
1.75	0.175	0.60	10 640	50	0.807	0.68	1 395.7	1964	1987	PRODUCTION DECLINE
5.92	0.199	0.65	10 640	50	0.827	0.66	1 415.5	1964	1987	PRODUCTION DECLINE CONCURRENT PRODUCTION
1.10	0.179	0.50	10 640	50	0.807	0.69	1 412.8	1965	1987	PRODUCTION DECLINE CONCURRENT PRODUCTION
1.43	0.180	0.45	10 620	52	0.826	0.67	1 408.3	1965	1989	MATERIAL BALANCE SOLN MU - UM C.U.ZZZ&LM A&H, CONC PROD
0.61	0.160	0.50	10 620	45	0.808	0.67	1 456.6	1971	1983	MATERIAL BALANCE SOLN MU - UM C.U.ZZZ&LM A&H, CONC PROD
1.49	0.205	0.70	10 450	50	0.829	0.66	1 377.5	1964	1987	TCPL CONCURRENT PRODUCTION
2.17	0.203	0.60	10 450	50	0.817	0.68	1 393.4	1965	1989	PRODUCTION DECLINE
1.72	0.180	0.55	10 450	50	0.817	0.68	1 437.5	1962	1987	PRODUCTION DECLINE GPP
4.50	0.130	0.50	10 350	45	0.810	0.67	1 404.5	1952	1987	PRODUCTION DECLINE
1.22	0.220	0.70	10 340	26	0.794	0.66	1 356.9	1982 1966 1952	1988 1989 1987	TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
GHOST PINE 031-22W4 (CONTINUED)									
LOWER MANNVILLE B SOLN	25	0.60	0.10	14b			40		
LOWER MANNVILLE B ASSOC	494	0.80	0.10	356b	275b	95	40	3 820	902
LOWER MANNVILLE F	551	0.90	0.10	446	425	21	40	835	783
PEKISKO G	772	0.92	0.04	682	624	58	39	2 284	586
OTHER	10 433			6 497	2 815	3 682		143 275	
TOTAL-GHOST PINE	25 641			17 324	10 797	6 527		256 469	
GILBY 041-03W5									
CARDIUM C	609	0.85	0.15	440	21	419	41	16 990	2 882
UPPER MANNVILLE E	527	0.80	0.15	358	5	353	40	14 060	150
BASAL MANNVILLE D	1 911	0.80	0.15	1 300	1 014	286	41	11 677	1 150
BASAL MANNVILLE W	523	0.65	0.10	306	143	163	41	6 639	150
BASAL MANNVILLE A		0.85	0.15				40		2 369
JURASSIC D		0.85	0.15				41		861
BSL MANN A & JUR D TOTAL	9 688	0.85	0.15	7 000	4 236	2 764	41	111 997	
BASAL MANNVILLE H		0.85	0.10				41		2 800
BASAL MANNVILLE L ASSOC		0.85	0.10				40		200
JURASSIC-RUNDLE ASSOC		0.85	0.10				41		13 597
JURASSIC-RUNDLE SOLN	111	0.60	0.10	60b			41		
BMN H&L, J-RUN&UMN A TOTAL	26 516	0.85	0.10	20 260b	16 654b	3 606	41	146 872	
JURASSIC B SOLN	1 058	0.31	0.20	262b			41		
JURASSIC B ASSOC	499	0.80	0.15	339b	366b	235	41	9 581	494
JURASSIC N	555	0.85	0.10	425	313	112	41	4 566	200
RUNDLE G	598	0.85	0.15	432		432	40	17 284	1 125
RUNDLE H	984	0.85	0.10	752	1	751	39	29 191	1 428
OTHER	8 373			5 122	1 088	4 034		159 498	
TOTAL-GILBY	51 841			36 996	23 841	13 155		528 355	
GILWOOD 073-18W5									
TOTAL-GILWOOD	414			249	53	196		7 296	
GIROUX LAKE 066-21W5									
TOTAL-GIROUX LAKE	724			460	22	438		16 817	
GIROUXVILLE (SA) 077-23W5									
TOTAL-GIROUXVILLE	59			42		42		1 573	
GIROUXVILLE EAST 077-22W5									
GETHING A	741	0.75	0.05	528	12	516	36	18 602	1 658
OTHER	587			405	102	303		11 396	
TOTAL-GIROUXVILLE EAST	1 328			933	114	819		29 998	
GLACIER 077-12W6									
TOTAL-GLACIER	774			545		545		21 137	
GLADYS 020-27W4									
WABAMUN A	1 500	0.50	0.20	600		600	37	22 386	2 983
OTHER	738			400	59	341		13 235	
TOTAL-GLADYS	2 238			1 000	59	941		35 621	
GLEICHEN 022-22W4									
MEDICINE HAT A	854	0.70	0.03	580			36		19 600
SE ALTA GAS SYS(MU) TOTAL	854	0.70	0.05	580	253	327	36	11 926	
GLAUCONITIC J	527	0.80	0.10	380	163	217	39	8 513	1 986
OTHER	261			165	26	139		5 164	
TOTAL-GLEICHEN	1 642			1 125	442	683		25 603	
GLEN PARK 049-27W4									
TOTAL-GLEN PARK	1 202			783	282	501		19 535	
GLENEVIS 055-04W5									
TOTAL-GLENEVIS	749			529	77	452		17 542	
GLOVER 075-09W4									
TOTAL-GLOVER	113			58		58		2 130	
GODIN 081-01W5									
TOTAL-GODIN	369			183		183		6 771	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DESCRIPTION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
						0.68		1959	1988	TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
1.61	0.185	0.60	10 730	51	0.813	0.68	1 453.8	1959	1988	TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
5.34	0.200	0.55	10 650	52	0.826	0.66	1 471.0	1960	1981	TCPL PRODUCTION DECLINE
7.73	0.064	0.85	10 170	49	0.828	0.64	1 399.3	1962	1989	TCPL PRODUCTION DECLINE
1.01	0.096	0.85	19 380	48	0.764	0.72	1 774.8	1963	1982	QWNGNUL NORGEN A&S
9.40	0.270	0.85	15 860	70	0.808	0.73	2 118.2	1977	1989	QWNGNUL
7.80	0.107	0.80	15 510	70	0.821	0.72	2 045.5	1962	1987	KANNGAZ TCPL PRODUCTION DECLINE
3.70	0.140	0.70	13 040	68	0.817	0.74	2 137.0	1977	1989	TCPL PRODUCTION DECLINE
12.65	0.137	0.70	15 980	72	0.838	0.70	2 151.3	1956	1986	MATERIAL BALANCE
5.48	0.169	0.75	15 980	72	0.831	0.71	2 173.8	1956	1986	MATERIAL BALANCE
								1956	1986	TCPL
4.91	0.120	0.65	15 870	70	0.814	0.74	2 112.9	1956	1987	MATERIAL BALANCE
1.10	0.120	0.70	15 310	73	0.775	0.83	2 045.8	1959	1987	MATERIAL BALANCE
11.03	0.120	0.65	15 960	71	0.817	0.74	2 096.9	1955	1987	MATERIAL BALANCE CONCURRENT PRODUCTION
						0.74		1955	1987	MATERIAL BALANCE CONCURRENT PRODUCTION
								1955	1987	A&S TCPL CONCURRENT PRODUCTION
								1958	1988	A&S TCPL CONCURRENT PRODUCTION
4.94	0.159	0.80	15 890	71	0.817	0.74	2 133.0	1958	1988	A&S TCPL CONCURRENT PRODUCTION
10.36	0.150	0.70	15 400	70	0.825	0.71	2 121.9	1953	1989	TCPL MATERIAL BALANCE
5.80	0.073	0.75	17 600	77	0.854	0.68	2 195.9	1961	1987	PROGAS ESSO TCPL
6.45	0.087	0.70	17 980	77	0.833	0.73	2 231.0	1963	1985	PROGAS POCO KANNGAZ TCPL SOQUIP
3.85	0.209	0.65	8 230	37	0.883	0.58	860.2	1980	1986	SOQUIP
5.03	0.051	0.85	22 900	66	0.833	0.79	2 521.8	1961	1989	TCPL KANNGAZ BER
1.01	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1988	PART OF MED HAT POOL NO. 1
1.55	0.191	0.75	10 830	43	0.816	0.65	1 354.6	1904	1988	PROGAS PANALTA CEL KANNGAZ
								1963	1985	PROGAS TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
GOLD CREEK 067-05W6									
BLUESKY-GETHING A	2 256	0.70	0.05	1 500	1 227	273	40	10 906	7 673
CADOMIN B	689	0.70	0.10	434	175	259	40	10 259	812
WABAMUN A	3 600	0.50	0.35	1 170	755	415	39	16 090	1 230
WAB 34-069-05	† 021	0.75	0.15	651		651	36	23 677	400
WAB 34-069-05	511	0.70	0.15	304		304	37	11 382	200
OTHER	2 299			1 544	140	1 404		55 353	
TOTAL-GOLD CREEK	10 376			5 603	2 297	3 306		127 667	
GOLDEN 086-15W5									
TOTAL-GOLDEN	205			64	11	53		1 958	
GOLDEN SPIKE 051-27W4									
D-1 A	920	0.85	0.10	704	420	284	39	11 093	438
D-3 A SOLN	4 767	0.82	0.45	2 150 ^b			42		
D-3 A ASSOC		0.90	0.10		1 452 ^b	698	42	29 525	
OTHER	† 901			1 031	536	495		19 450	
TOTAL-GOLDEN SPIKE	7 588			3 885	2 408	1 477		60 068	
GOODFISH (SA) 091-09W5									
TOTAL-GOODFISH	106			66		66		2 464	
GOODRIDGE 061-02W5									
TOTAL-GOODRIDGE	556			369	60	309		11 769	
GOODWIN 059-13W5									
JURASSIC A	688	0.80	0.10	495		495	38	18 602	1 289
OTHER	424			247	32	215		8 551	
TOTAL-GOODWIN	1 112			742	32	710		27 153	
GOOSE RIVER 067-18W5									
VIKING A	533	0.85	0.05	430	26	404	37	15 057	2 356
BEAVERHILL LAKE A SOLN	2 083	0.43	0.40	538	417	121	41	5 020	
OTHER	22			13	-61	74		3 012	
TOTAL-GOOSE RIVER	2 638			981	382	599		23 089	
GOPHER (SA) 081-19W4									
TOTAL-GOPHER	39			19		19		674	
GORDONDALE 079-10W6									
PEACE RIVER	989	0.85	0.05	799			39		3 717
NOTIKEWIN B	102	0.75	0.05	73			39		200
GETHING A	811	0.75	0.03	590			39		3 176
PEACE RIV, NOT B&GET A TOTAL	† 902	0.80	0.05	1 462	† 425	37	39	1 432	
GETHING B	515	0.67	0.05	328	328	< 1	38		150
OTHER	3 718			2 630	233	2 397		92 634	
TOTAL-GORDONDALE	6 135			4 420	† 986	2 434		94 066	
GRAHAM 079-04W4									
MCMURRAY B	843	0.50	0.05	401	185	216	37	7 998	3 031
OTHER	462			235	51	184		6 767	
TOTAL-GRAHAM	1 305			636	236	400		14 765	
GRAINDALE 026-01W4									
TOTAL-GRAINDALE	350			237	14	223		8 228	
GRAND FORKS 011-13W4									
TOTAL-GRAND FORKS	1 789			867	57	810		27 245	
GRANDE CACHE (SA) 059-08W6									
TOTAL-GRANDE CACHE	143			108		108		3 888	
GRANDE PRAIRIE 071-06W6									
TOTAL-GRANDE PRAIRIE	2 487			† 441	2	† 439		56 892	
GRANLEA 008-10W4									
BOW ISLAND A	† 362	0.85	0.05	† 100	881	219	36	7 834	5 029
OTHER	205			147	58	89		3 220	
TOTAL-GRANLEA	1 567			1 247	939	308		11 054	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS	
m	frac	frac	kPa	°C	frac	frac	m			
2.32	0.109	0.60	22 100	70	0.857	0.66	2 126.0	1964	1987	PROGAS A&S MATERIAL BALANCE
6.69	0.090	0.70	19 750	64	0.828	0.68	2 105.9	1966	1975	
17.47	0.069	0.85	35 600	99	0.974	1.11	3 344.6	1964	1987	A&S PRODUCTION DECLINE
12.05	0.101	0.85	33 870	110	1.019	0.69	3 188.8	1980	1982	PROGAS
12.00	0.100	0.85	34 180	111	1.011	0.70	3 233.3	1980	1982	PROGAS
6.15	0.090	0.80	10 890	53	0.833	0.69 0.86 0.86	1 384.7	1949 1949 1949	1970 1988 1988	ESSO MATERIAL BALANCE CWNGNUL CONC PROD. SEC GAS CAP. GAS CYCLING CWNGNUL CONC PROD. SEC GAS CAP. GAS CYCLING
4.99	0.200	0.40	14 030	69	0.872	0.65	1 784.0	1956	1975	TCP_L
1.85	0.200	0.65	9 460	53	0.878	0.61 0.70	1 213.2	1964 1963	1978 1989	PANALTA TCP_L TCP_L
4.48	0.190	0.70	4 300	33	0.915	0.61	841.9	1952	1974	MATERIAL BALANCE
7.40	0.145	0.65	7 240	44	0.887	0.58	959.2	1957	1982	
3.38	0.120	0.70	10 150	42	0.845	0.60	1 291.7	1953	1971	MATERIAL BALANCE
9.87	0.120	0.70	12 470	43	0.834	0.59	1 325.3	1952 1957	1974 1989	PROGAS PANALTA
6.31	0.302	0.80	1 740	9	0.962	0.56	232.2	1976	1989	PANALTA TCP_L
2.37	0.221	0.60	5 650	26	0.904	0.58	683.8	1971	1987	PANALTA CWNGNUL MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
GRANOR 083-18W4									
GROSMONT A	1 317	0.40	0.05	501	393	108	37	3 986	22 178
OTHER	122			62		62		2 127	
TOTAL-GRANOR	1 439			563	393	170		6 113	
GRANUM 011-26W4									
BOW ISLAND A	560	0.65	0.10	328	44	284	39	10 962	2 407
TOTAL-GRANUM	560			328	44	284		10 962	
GRASSLAND 067-19W4									
WABAMUN-WINTERBURN A	526	0.70	0.05	350	88	262	37	9 710	2 489
OTHER	1 045			653	341	312		11 568	
TOTAL-GRASSLAND	1 571			1 003	429	574		21 278	
GRASSY (SA) 067-21W5									
TOTAL-GRASSY	35			23		23		871	
GREENCOURT 059-09W5									
JURASSIC B	690	0.85	0.10	528	1	527	38	20 237	1 736
JURASSIC A	2 750	0.80	0.10	1 980 ^b			40		5 590
PEKISKO A ASSOC	2 787	0.55	0.10	1 380 ^b			40		2 643
PEKISKO A SOLN	123	0.60	0.15	63 ^b			40		
JURASSIC A&PEKISKO A TOTAL	5 660	0.65	0.10	3 423 ^b	3 260 ^b	163	40	6 496	
OTHER	671			468	142	326		12 686	
TOTAL-GREENCOURT	7 021			4 419	3 403	1 016		39 419	
GREENCOURT EAST 059-06W5									
JURASSIC A ASSOC	412	0.85	0.10	315	148	167	39	6 525	998
OTHER	257			173	19	154		5 918	
TOTAL-GREENCOURT EAST	669			488	167	321		12 443	
GREGG (SA) 049-25W5									
TOTAL-GREGG	136			92		92		3 498	
GREY (SA) 045-19W5									
TOTAL-GREY	181			129		129		4 887	
GRIMSHAW 083-23W5									
TOTAL-GRIMSHAW	153			112	24	88		3 288	
GRIST 073-09W4									
GRAND RAPIDS A	824	0.55	0.05	430		430	37	16 043	10 889
OTHER	80			46		46		1 699	
TOTAL-GRIST	904			476		476		17 742	
GRIZZLY 062-22W5									
TOTAL-GRIZZLY	701			506	102	404		16 026	
GROAT 057-16W5									
LEDUC A	1 175	0.50	0.35	382	46	336	36	12 251	614
OTHER	986			497		497		19 058	
TOTAL-GROAT	2 161			879	46	833		31 309	
GROUARD 075-15W5									
TOTAL-GROUARD	9			5		5		185	
GROUSE 074-12W4									
TOTAL-GROUSE	263			134		134		4 967	
GUNN 055-03W5									
TOTAL-GUNN	426			280	80	200		7 728	
GUTAH 099-07W6									
TOTAL-GUTAH	47			31		31		1 146	
HABAY (SA) 088-06W6									
TOTAL-HABAY	47			26		26		985	
HACKETT 035-17W4									
UPPER MANNVILLE G	557	0.60	0.10	301		301	39	11 619	300
LOWER MANNVILLE A	796	0.80	0.09	580	550	30	39	1 155	977
OTHER	824			541	301	240		9 141	
TOTAL-HACKETT	2 177			1 422	851	571		21 915	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
14.77	0.173	0.20	1 140	13	0.976	0.57	315.0	1976	1989	PANALTA KANNGAZ
5.13	0.120	0.65	5 850	47	0.894	0.65	1 667.3	1971	1983	CWNGNUL
4.50	0.250	0.65	2 910	29	0.949	0.56	546.9	1958	1986	PANALTA TCPL
4.89	0.132	0.55	11 240	61	0.855	0.65	1 481.5	1974	1987	PROGAS CWNGNUL KANNGAZ TCPL
6.42	0.128	0.50	11 680	60	0.840	0.66	1 441.2	1961	1985	PRODUCTION DECLINE
10.77	0.117	0.75	11 210	63	0.851	0.66	1 455.0	1961	1985	PRODUCTION DECLINE CONCURRENT PRODUCTION
						0.66		1961	1985	PRODUCTION DECLINE CONCURRENT PRODUCTION
								1961	1985	TCPL CONCURRENT PRODUCTION
2.72	0.205	0.65	10 720	50	0.829	0.66	1 227.8	1980	1989	PROGAS ATCOR OIL POOL DEPLETED
2.42	0.303	0.65	1 580	19	0.969	0.55	325.9	1979	1989	BER
12.80	0.075	0.85	26 890	104	0.865	0.94	3 056.9	1984	1989	PROGAS A&S
17.80	0.226	0.75	5 880	37	0.877	0.66	1 179.7	1988	1989	
8.24	0.180	0.70	8 400	41	0.837	0.67	1 169.5	1952	1989	PRODUCTION DECLINE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
HAIRY HILL 055-14W4									
COLONY W	1 900	0.72	0.05	1 300	1 162	138	37	5 109	1 781
COLONY X	954	0.65	0.05	589	523	66	37	2 469	1 941
D-2 B	571	0.75	0.05	407	407	< 1	37	-	1 046
CAMROSE A	682	0.85	0.05	551	528	23	37	858	4 004
OTHER	3 634			2 133	1 209	924		34 504	
TOTAL-HAIRY HILL	7 741			4 980	3 829	1 151		42 940	
HALKIRK 038-16W4									
UPPER MANNVILLE I ASSOC	321	0.70	0.10	203			38		348
UPPER MANNVILLE I SOLN	379	0.41	0.10	140			38		
UPPER MANNVILLE I ASSOC	23	0.70	0.10	14			38		150
UPPER MANNVILLE I TOTAL	723	0.55	0.10	357		357	38	13 491	
OTHER	1 387			871	229	642		23 209	
TOTAL-HALKIRK	2 110			1 228	229	999		36 700	
HALKIRK EAST 040-14W4									
TOTAL-HALKIRK EAST	676			443	13	430		15 290	
HALLIDAY 028-14W4									
TOTAL-HALLIDAY	108			77	22	55		2 055	
HAMBURG 095-11W6									
SLAVE POINT A	2 276	0.80	0.05	1 730	971	759	38	28 500	1 149
SLAVE POINT B	527	0.80	0.05	401	1	400	38	15 180	200
SL PT 096-12	657	0.90	0.10	532		532	40	21 291	736
OTHER	230			175		175		6 585	
TOTAL-HAMBURG	3 690			2 838	972	1 866		71 556	
HAMELIN CREEK 080-06W6									
TOTAL-HAMELIN CREEK	672			451	150	301		11 405	
HANDHILLS (SA) 029-17W4									
TOTAL-HANDHILLS	20			14		14		536	
HANGINGSTONE 084-09W4									
UPPER MANNVILLE A	2 915	0.65	0.05	1 800	111	1 689	37	62 577	30 634
OTHER	782			396		396		14 780	
TOTAL-HANGINGSTONE	3 697			2 196	111	2 085		77 357	
HANLAN 047-17W5									
CARDIUM A	555	0.90	0.15	425		425	41	17 217	200
CARD SD 03-046-17	485	0.90	0.05	415		415	39	16 347	200
WINTERBURN B	859	0.75	0.10	580	402	178	38	6 680	200
BEAVERHILL LAKE A	40 000	0.80	0.25	24 000	5 820	18 180	38	687 749	8 656
BEAVERHILL LAKE B	1 299	0.80	0.25	779	269	510	38	19 212	440
OTHER	832			544		544		21 709	
TOTAL-HANLAN	44 030			26 743	6 491	20 252		768 914	
HANNA 031-14W4									
UPPER MANNVILLE E	194	0.70	0.10	122			38		300
LOWER MANNVILLE F	940	0.80	0.10	677			39		2 807
U MANN E & L MANN F TOTAL	1 134	0.80	0.10	799	723	76	39	2 936	
LOWER MANNVILLE E	403	0.80	0.05	306	252	54	39	2 091	1 139
OTHER	1 202			786	83	703		26 460	
TOTAL-HANNA	2 739			1 891	1 058	833		31 487	
HARDY 076-06W4									
MCMURRY O	1 445	0.75	0.05	1 030	B	1 022	37	37 906	4 205
MCMURRAY A	869	0.50	0.05	413			37		9 192
MCMURRAY D	52	0.50	0.05	25			37		397
MCMURRAY E	1 477	0.50	0.05	702			37		7 717
MCMURRAY A,D & E TOTAL	2 398	0.50	0.05	1 140	428	712	37	26 600	
OTHER	1 716			916	82	834		31 044	
TOTAL-HARDY	5 559			3 086	518	2 568		95 550	
HARLECH (SA) 044-14W5									
TOTAL-HARLECH	204			146		146		5 899	
HARLEY 056-27W5									
LED 15-056-27	861	0.70	0.10	543		543	39	21 318	200
OTHER	92			67		67		2 673	
TOTAL-HARLEY	953			610		610		23 991	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DATE REVIEWED	DATE REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m	YEAR	YEAR	
8.26	0.300	0.75	4 340	25	0.919	0.58	538.1	1954	1985	CWNGNUL TCPL MATERIAL BALANCE
5.40	0.290	0.70	4 190	27	0.923	0.57	561.3	1972	1985	CWNGNUL PCI TCPL PRODUCTION DECLINE
5.40	0.184	0.75	3 990	27	0.928	0.56	628.6	1964	1989	CWNGNUL TCPL PRODUCTION DECLINE
3.25	0.105	0.60	3 940	29	0.931	0.56	661.7	1973	1984	CWNGNUL TCPL PRODUCTION DECLINE
5.41	0.227	0.75	9 200	39	0.837	0.65	1 233.2	1985	1989	
1.10	0.210	0.65	9 200	39	0.837	0.65	1 237.6	1985	1989	ASSIGNED WELL 14-35-37-17W4M
13.56	0.085	0.85	26 240	109	0.966	0.61	2 534.7	1983	1986	SHELL
16.00	0.090	0.90	25 400	100	0.953	0.59	2 522.8	1988	1989	A&S ESSO
7.70	0.063	0.80	27 800	99	0.924	0.73	2 574.4	1985	1989	SHELL
3.58	0.336	0.70	1 130	18	0.977	0.56	303.3	1974	1989	NRTHSTR DEVNIC
9.56	0.140	0.85	26 130	79	0.865	0.78	2 653.6	1974	1976	PROGAS PANALTA
19.52	0.054	0.85	33 710	83	0.995	0.60	2 886.1	1978	1982	TCPL CNG
44.30	0.070	0.85	60 710	123	1.285	0.60	4 133.1	1980	1989	PANALTA MATERIAL BALANCE TOP/BASE TVD
22.10	0.085	0.90	43 810	144	1.093	0.72	4 625.0	1976	1988	PANALTA
18.52	0.064	0.90	43 840	138	1.096	0.71	4 774.3	1979	1989	PANALTA
2.60	0.250	0.65	9 470	36	0.828	0.64	1 127.4	1972	1986	MATERIAL BALANCE
1.66	0.192	0.80	9 490	37	0.824	0.64	1 151.5	1949	1988	PRODUCTION DECLINE
1.29	0.210	0.70	9 310	37	0.823	0.65	1 139.1	1949	1988	TCPL
								1972	1982	TCPL KANNGAZ MATERIAL BALANCE
7.49	0.310	0.80	1 790	13	0.962	0.56	309.0	1983	1989	PANALTA TRITON CANOXY
2.51	0.295	0.65	1 940	19	0.962	0.55	336.6	1979	1989	
3.12	0.288	0.70	1 970	10	0.956	0.56	386.1	1984	1989	
4.40	0.292	0.75	1 960	19	0.961	0.56	340.6	1984	1989	
								1979	1989	TRITON ICG BVI
33.53	0.060	0.80	44 110	144	1.125	0.71	4 635.0	1976	1980	CANOXY BER

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
HARMATTAN EAST 032-03W5 RUNDLE SOLN	5 624	0.37	0.30	1 457 ^b			41 ^a		
RUNDLE ASSOC	36 252	c	c	28 000 ^b	16 123 ^b	13 334	41 ^a	545 761	19 341
OTHER	1 571			848	122	726		29 666	
TOTAL-HARMATTAN EAST	43 447			30 305	16 245	14 060		575 427	
HARMATTAN-ELKTON 031-04W5 RUNDLE B SOLN	18	0.65	0.30	8 ^b			40		
RUNDLE B ASSOC	2 353	0.85	0.15	1 700 ^b	1 019 ^b	689	40	27 725	2 643
RUNDLE C SOLN	5 143	0.65	0.30	2 340 ^b			41		
RUNDLE C ASSOC	31 326	c	c	23 300 ^b	9 021 ^b	16 619	41	674 565	7 020
RUNDLE A	2 400	0.25	0.14	516	452	64	39	2 486	849
D-3 A	13 400	0.28	0.79	788	683	105	36	3 761	4 527
OTHER	89			63		63		2 468	
TOTAL-HARMATTAN-ELKTON	54 729			28 715	11 175	17 540		711 005	
HARMON VALLEY (SA) 081-19W5 TOTAL-HARMON VALLEY	61			38		38		1 423	
HARD 101-03W6 BLUESKY A	3 094	0.50	0.05	1 470			37		46 428
BLUESKY A	4 526	0.70	0.05	3 010			36		26 539
BLUESKY A	28	0.70	0.05	19			36		718
BLUESKY A	653	0.70	0.05	434			36		6 557
BLUESKY A	4	0.55	0.05	2			36		200
BLUESKY A	5	0.55	0.05	3			36		200
BLUESKY A	5	0.65	0.05	3			36		200
BLUESKY A	5	0.70	0.05	4			36		200
BLUESKY A	13	0.50	0.05	7			36		200
BLUESKY A	8	0.70	0.05	6			37		200
BLUESKY A TOTAL	8 341	0.65	0.05	4 958	1 873	3 085	37	113 312	
OTHER	1 136			685	198	487		17 843	
TOTAL-HARD	9 477			5 643	2 071	3 572		131 155	
HARPER (SA) 097-24W4 TOTAL-HARPER	303			212		212		7 831	
HARTELL 019-02W5 TOTAL-HARTELL	364			77	77				
HARTMAN 067-04W5 TOTAL-HARTMAN	23			15		15		567	
HASTINGS 050-20W4 TOTAL-HASTINGS	327			217	113	104		3 925	
HAWK 097-20W5 TOTAL-HAWK	32			22		22		824	
HAYNES 038-24W4 TOTAL-HAYNES	206			118	12	106		4 037	
HAYS 013-14W4 ARCS 25-012-15	633	0.85	0.25	404		404	35	14 164	400
OTHER	669			438		438		15 618	
TOTAL-HAYS	1 302			842		842		29 782	
HAYTER 041-01W4 TOTAL-HAYTER	457			327	13	314		11 265	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
9.14	0.088	0.73	23 600	85	0.840	0.82	2 521.3	1954	1987	PANALTA NORDEN DEKALB A&S TOPL CONCURRENT PRODUCTION, GAS CYCLING
						0.82		1954	1987	PANALTA NORDEN DEKALB A&S TOPL CONCURRENT PRODUCTION, GAS CYCLING
1.61	0.092	0.80	23 670	91	0.896	0.71	2 733.6	1960	1986	TOPL A&S PRODUCTION DECLINE CONCURRENT PRODUCTION, OIL DEPLETED
						0.71		1960	1986	TOPL A&S PRODUCTION DECLINE CONCURRENT PRODUCTION, OIL DEPLETED
21.20	0.105	0.90	25 030	94	0.873	0.71	2 673.0	1954	1983	PANALTA A&S TOPL CONCURRENT PRODUCTION, GAS CYCLING
8.63	0.124	0.80	24 790	75	0.887	0.71	2 780.4	1957	1987	TOPL PRODUCTION DECLINE
22.22	0.050	0.90	32 230	110	0.777	0.92	3 351.8	1961	1983	A&S TOPL MATERIAL BALANCE
2.46	0.210	0.40	3 100	19	0.936	0.57	335.3	1973	1987	PART OF BLSKY POOL NO.1
6.30	0.210	0.40	3 100	19	0.937	0.59	335.3	1973	1984	PART OF BLSKY POOL NO.1
1.43	0.210	0.40	3 100	19	0.937	0.59	335.3	1973	1982	PART OF BLSKY POOL NO.1
3.68	0.210	0.40	3 100	19	0.937	0.59	335.3	1973	1982	PART OF BLSKY POOL NO.1
0.90	0.160	0.40	3 080	30	0.945	0.59	638.7	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
1.20	0.160	0.40	3 130	30	0.944	0.59	637.7	1973	1982	06-10-104-05W6M
1.30	0.160	0.40	3 190	25	0.940	0.59	449.1	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
0.90	0.210	0.40	3 100	24	0.941	0.59	458.5	1973	1982	10-28-104-05W6M
4.70	0.210	0.40	1 730	27	0.968	0.59	570.3	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
1.85	0.180	0.40	3 100	30	0.944	0.59	577.3	1973	1982	10-09-105-05W5M
								1973	1987	PART OF BLSKY POOL NO.1 ASSIGNED WELL
										11-30-106-06W6M
										10-33-104-06W6M
										PANALTA CANGNUL A&S TOPL PART OF BLSKY POOL NO.1
9.75	0.142	0.85	11 810	42	0.793	0.86	1 337.8	1985	1988	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
HEART LAKE 069-10W4 TOTAL-HEART LAKE	694			350	97	253		9 308	
HEART RIVER 077-16W5									
PADDY A	900	0.50	0.05	428	102	326	37	12 192	2 855
NOTIKWIN	1 500	0.65	0.05	926	622	304	37	11 385	3 861
OTHER	178			119	37	82		3 052	
TOTAL-HEART RIVER	2 578			1 473	761	712		26 629	
HEATHDALE 027-08W4									
GLAUCONITIC F	892	0.75	0.05	636	2	634	38	23 813	1 667
OTHER	2 578			1 783	82	1 701		63 798	
TOTAL-HEATHDALE	3 470			2 419	84	2 335		87 611	
HECTOR 016-17W4									
UPPER MANNVILLE C	557	0.90	0.10	451	23	428	38	16 414	300
OTHER	588			422	71	351		13 234	
TOTAL-HECTOR	1 145			873	94	779		29 648	
HELDAR 058-07W5									
NORDEGG B	1 021	0.85	0.10	781	148	633	39	24 554	1 956
OTHER	896			606	4	602		23 610	
TOTAL-HELDAR	1 917			1 387	152	1 235		48 164	
HELICOPTER 102-08W6 TOTAL-HELICOPTER	36			24		24		870	
HELMSDALE 026-06W4 TOTAL-HELMSDALE	28			20	20				
HERCULES 051-23W4 TOTAL-HERCULES	865			540	118	422		15 495	
HERRONTON 019-26W4									
BELLY RIVER A		0.80	0.05				36		7 664
BELLY RIVER B		0.80	0.05				36		2 491
BELLY RIVER A & B TOTAL	1 619	0.80	0.05	1 230	1 214	16	36	582	
OTHER	686			370	119	251		9 274	
TOTAL-HERRONTON	2 305			1 600	1 333	267		9 856	
HIGH PRAIRIE 074-16W5 TOTAL-HIGH PRAIRIE	486			340		340		12 576	
HIGH RIVER (SA) 018-29W4 TOTAL-HIGH RIVER	207			124		124		5 176	
HIGHLAND 029-02W4 TOTAL-HIGHLAND	623			457		457		17 200	
HIGHVALE 051-04W5									
LOWER MANNVILLE A SOLN	455	0.47	0.15	182b			39		
LOWER MANNVILLE A ASSOC	243	0.75	0.10	164b	102b	244	39	9 443	1 139
NORDEGG D	19	0.80	0.10	14b			40		128
BANFF H SOLN	725	0.65	0.15	400b			42		
NORDEGG D & BANFF H TOTAL	744	0.65	0.15	414b	40b	374	42	15 674	
OTHER	3 571			2 310	233	2 077		80 971	
TOTAL-HIGHVALE	5 013			3 070	375	2 695		106 088	
HIGHWOOD (SA) 017-02W5 TOTAL-HIGHWOOD	3			2		2		80	
HILL 085-11W6 TOTAL-HILL	159			113	16	97		3 762	
HILLSDOWN 037-25W4 TOTAL-HILLSDOWN	304			185	10	175		6 634	
HINES 086-03W6									
SPIRIT RIVER F	748	0.70	0.05	498	160	338	38	12 760	3 228
OTHER	1 526			951	374	577		21 565	
TOTAL-HINES	2 274			1 449	534	915		34 325	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW SA RELATIVE DENSITY	MEAN FORMATION DEPTH	DATE YEAR	DATE LAST REVIEW	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.51 4.23	0.283 0.326	0.70 0.65	1 870 3 270	21 24	0.964 0.940	0.55 0.55	493.2 533.5	1952 1952	1989 1989	PANALTA UNOCAL MATERIAL BALANCE PANALTA AMOCO UNOCAL MATERIAL BALANCE
2.15	0.314	0.75	9 570	32	0.844	0.60	1 001.9	1983	1989	A&S TGPL CANST
17.65	0.154	0.50	11 820	35	0.799	0.64	1 081.7	1988	1989	TGPL IOG
4.34	0.169	0.60	11 160	50	0.828	0.66	1 264.1	1980	1989	UNIGAS PROGAS DIRECT
4.10 3.01	0.212 0.200	0.65 0.55	3 280 3 310	35 35	0.948 0.947	0.57 0.57	922.4 995.4	1973 1973 1973	1985 1984 1984	MATERIAL BALANCE MATERIAL BALANCE CWNGNUL
1.19 1.40	0.149 0.090	0.65 0.60	16 520 17 230	49 49	0.787 0.761	0.70 0.70 0.73 0.74	1 568.5 1 587.3	1976 1976 1985 1981 1985	1986 1986 1986 1986 1987	CONCURRENT PRODUCTION CONCURRENT PRODUCTION
3.99	0.315	0.65	2 860	29	0.949	0.56	609.9	1978	1988	

4 RESERVES OF GAS

4.1 PROVINCIAL SUMMARY

The Board estimates the remaining established reserves of marketable gas in Alberta at 31 December 1989 to be 1650 billion cubic metres, having a thermal (heating value) energy content of 63.5 exajoules. This represents a net increase of 22 billion cubic metres since 31 December 1988. The reserves include ethane and natural gas liquids subsequently recovered at reprocessing plants as discussed in Section 4.6. The changes in reserves during 1989 are shown below:

	Remaining Established Reserves of Marketable Gas			
	Actual Heating Value Basis	Change	37.4 MJ/m ³ Basis	Energy Content
	10 ⁹ m ³			10 ¹⁸ J
At 31 December 1988				
Associated and solution	280.3			
Non-associated	1 347.4			
Total	1 627.7		1 673.7	62.6
Additions during 1989	107.8		110.8	4.1
Less production during 1989	85.8		86.3	3.2
At 31 December 1989				
Associated and solution	282.9	+ 2.6	302.8	11.3
Non-associated	1 366.8	+19.4	1 395.4	52.2
Total	1 649.7	+22.0	1 698.2	63.5
	(58 555) ^a		(60 276) ^b	

^a Imperial equivalent in billions of cubic feet at 14.65 pounds per square inch absolute and 60 degrees Fahrenheit.

^b Imperial equivalent in billions of cubic feet of 1000 British thermal units per cubic foot of gas.

At year-end 1989, gas reserves were assigned to 21 676 pools in the province. Of these, 8011 had produced or are being produced and had remaining established reserves of 1153 billion cubic metres after cumulative production of 1549 billion. The 13 665 pools not on production had aggregate initial established reserves of marketable gas of 496 billion cubic metres, including 36 billion cubic metres of associated initial marketable gas reserves (gas-cap gas) classified as deferred.

4.2 RESERVES OF GAS CONTAINING HYDROGEN SULPHIDE

Some 1931 gas pools in the province contain at least some hydrogen sulphide and may be classed as "sour". The distribution of established reserves of sweet and sour gas is shown below:

Type of Gas	Raw Gas		Marketable Gas		
	Initial Volume in Place	Initial Producible	Initial Established Reserves	Net Cumulative Production	Remaining Established Reserves
	10 ⁶ m ³				
Sweet					
Associated	346 426	278 872	389 534	203 985	185 549
Solution	442 434	202 972			
Non-associated	2 504 188	1 808 697	1 679 489	687 539	991 950
Subtotal	3 293 048	2 290 541	2 069 023	891 524	1 177 499
Sour					
Associated	259 816	205 997	234 242	136 851	97 391
Solution	239 241	142 029			
Non-associated	1 625 217	1 226 931	895 759	520 922	374 837
Subtotal	2 124 274	1 574 957	1 130 001	657 773	472 228
Total	5 417 322 (192 281) ^a	3 865 498 (137 201) ^a	3 199 024 (113 545) ^a	1 549 297 (54 990) ^a	1 649 727 (58 555) ^a

^a Imperial equivalent in billions of cubic feet at 14.65 pounds per square inch absolute and 60 degrees Fahrenheit.

The distribution of marketed gas production by hydrogen sulphide content in raw gas is shown below:

H ₂ S Content in Raw Gas	1989 Cumulative Marketed Production		1989 Annual Marketed Production	
	10 ⁶ m ³	percentage of total	10 ⁶ m ³	percentage of total
0.00	891 524	57.54	59 390	69.25
0.00-1.99	233 988	15.10	9 498	11.08
2.00-9.99	246 055	15.88	8 527	9.94
10.00-19.99	102 559	6.62	4 840	5.64
20.00-29.99	25 970	1.68	3 505 } ^a	4.09 } ^a
30.00 or more	49 210	3.18		
Total	1 549 297	100.00	85 760	100.00

^a Numbers grouped due to changes in H₂S contents.

Sulphur reserves are discussed in Chapter 7.

4.3 DISTRIBUTION OF GAS RESERVES BY POOL SIZE

The distribution of initial and remaining established reserves of marketable gas among pools of different size ranges is shown below. For the purposes of this table, where gas production from two or more pools is commingled in the wellbore, the pools are considered as one pool, the SE Alta Gas System (MU) is considered on a field basis, and associated and solution gas reserves in a pool have been combined.

Reserve Range	Pools		Initial Established Marketable Reserves		Remaining Established Marketable Reserves	
	number	percentage of total	10 ⁶ m ³	percentage of total	10 ⁶ m ³	percentage of total
3000 or more	151	0.69	1 713 149	53.55	661 677	40.11
1500-2999	99	0.46	200 462	6.27	103 906	6.30
300-1499	882	4.07	521 961	16.32	297 200	18.01
1-299	20 544	94.78	763 452	23.86	586 944	35.58
Total	21 676	100.00	3 199 024 (113 545) ^a	100.00	1 649 727 (58 555) ^a	100.00

^a Imperial equivalent in billions of cubic feet at 14.65 pounds per square inch absolute and 60 degrees Fahrenheit.

4.4 GROWTH OF MARKETABLE GAS RESERVES

The addition of 108 billion cubic metres to the initial established reserves during 1989 resulted partly from 19 billion cubic metres from new discoveries made during the year. The remaining 89 billion cubic metres were attributed to development drilling, the reassessment of previously discovered reserves, and reserves discovered before 1989 but first recognized by the Board in 1989. The quantity of reserves added in 1989 was the highest amount since 1982 and above the annual average for the last decade.

The reserve growth rate is more fully discussed in Chapter 8.

The pools for which initial marketable gas reserves were revised by more than 1000 million cubic metres in 1989 are listed in Table 4-1. The revisions occurred primarily as a result of detailed reviews of the reserves of these pools by operators and Board staff.

4.5 RESERVES OF POOLS CALCULATED ON AN ENERGY BASIS

Reserves of major retrograde condensate pools are tabulated on both an energy and a volumetric basis. Table 4-2 lists the initial energy in place, the recovery factor and surface loss factor (both on an energy basis), and the initial marketable energy for each pool. The table also lists raw- and marketable-gas heating values used to convert from a volumetric to an energy basis. The volumetric reserves of these pools are included in Table 4-5, but with recovery factors and surface loss factors deleted.

4.6 RESERVES OF ETHANE AND NATURAL GAS LIQUIDS INCLUDED IN GAS RESERVES

The remaining established reserves of natural gas discussed in Section 4.1 are determined at the field gate. A portion of the ethane and natural gas liquids they contain enter trunk line systems and will be extracted downstream at reprocessing plants. If these quantities which will be extracted are deducted from the remaining established reserves of marketable gas, the gas reserves and the thermal energy content would be reduced from 1650 billion to 1594 billion cubic metres and from 63.5 to 59.1 exajoules, respectively, as shown at the end of Table 4-5.

Reserves of ethane and natural gas liquids are discussed in more detail in Chapters 5 and 6, respectively.

4.7 DISCUSSION OF RESERVES TABLE 4-5

The established reserves of marketable gas have been estimated having regard for information presented by the industry in submissions and studies by the Board staff.

The established reserves of gas are listed in Table 4-5 alphabetically by strike area. Strike areas where no field has been designated by the Board are identified by "SA" immediately following the name. The approximate location of the strike area is also given. The data presented are condensed from the gas reserve system data file¹. Pools having initial marketable gas reserves greater than or equal to 300 million cubic metres are listed individually. Pools having reserves less than 300 million cubic metres are grouped within each field or area and presented as a total. The total reserve in a field or area is shown as the last entry.

Where the established reserve for a pool is based on material-balance or production-decline calculations, the reservoir factors last established for the pool for volumetric calculations have been retained for informational purposes.

Where production from two or more pools is commingled before measurement, the initial reserve estimate for each pool is shown, if available, together with the total reserve estimate for the pools. Production is subtracted from the sum of the initial established marketable reserves of the pools to obtain the remaining established marketable reserves. Similarly, because production of associated- and solution-gas reserves for a pool has not been determined separately, the combined net cumulative production is subtracted from the sum of the initial established marketable reserves of associated and solution gas. Therefore, Table 4-5 shows initial reserves by category but includes remaining associated- and solution-gas reserves only on a combined basis.

Gas reserves in communication with crude bitumen have been classified as non-associated reserves in this report.

The amount of marketable gas produced from a pool is determined by adjusting the cumulative raw gas production from the pool for the estimated surface loss. Where gas has been injected for the enhanced recovery of oil, cycling of gas pools, and gas storage, the volumes of injected gas are included in the remaining established reserves of marketable gas (column 6) of the respective pools. The volumes credited to the pools have been adjusted to reflect projected losses in the reservoir and in handling and processing.

The marketed gas production generated by the gas reserves system for 1989 was 85.8 billion cubic metres. (The actual net production of marketable gas, as determined from production reports, is reported in the Board's publication ERCB ST 90-17, "Alberta Oil and Gas Industry—Annual Statistics" and for 1989 was 82.4 billion cubic metres.) It is emphasized that because changes due to errors or to amendments to production reports have been made to the previously reported cumulative raw gas production for some pools, and because of the adjustments made to the injected gas volumes discussed above, net production volumes for any year should not be calculated from cumulative numbers appearing in this and previous reports.

The major purchasers of gas from particular fields are shown in column 20. This information has been updated to year-end 1989 based on the lands under contract data provided to the Board by those purchasers.

¹ The Board maintains a computer file of detailed reserves information for each pool in Alberta containing gas. The non-confidential portion of the file for year-end 1989 is available in the following forms:

(a) Magnetic computer tape of the gas reserve file.

(b) A COM-microfiche publication of gas reserves and reserve factors.

4.8 OTHER MATTERS

A summary of the distribution of established reserves of gas by geological period is shown in Table 4-3.

Pools that are common to more than one designated field and those pools whose production is commingled with such common pools are termed "multi-field pools". The reserve for each designated pool in a multi-field pool is shown under the designated field in Table 4-5. A list of pools contained in each multi-field pool, the individual initial established reserves, and the total initial established reserves for the multi-field pool are shown in Table 4-4.

Reserves in this report have been classified as within or beyond economic reach using a simple partially computerized procedure adopted by the Board in 1979. The Board estimates the reserves classified as beyond economic reach to be 66 billion cubic metres at 31 December 1989.

The map in the back pocket of this report shows the locations of Board-designated fields as at 31 December 1989.

**TABLE 4-1 MAJOR GAS RESERVE CHANGES
1989**

Pool	1	2	3
	Initial Established Reserves		Main Reasons for Change
	1989	Change	
	10 ⁶ m ³		
Blackstone Beaverhill Lake A	13 500	+ 2 500	Re-evaluation of initial volume in place
Carstairs Elkton A	23 500	+ 1 800	Re-evaluation of initial volume in place and recovery and surface loss factors
Cecilia Nisku 56-22 W5M	1 200	+ 1 200	New pool
Coleman Rundle A	5 100	+ 2 800	Re-evaluation of initial volume in place
Dunvegan Debolt A, B, C & D	28 021	+ 2 599	Re-evaluation of initial volume in place
Fir Leduc 34-57-21 W5M	2 360	+ 2360	New pool
Karr Notikewin 66-4 W6M	1 200	+ 1 200	New pool
Wapiti Falher F-1	3 700	+ 1 470	Re-evaluation of initial volume in place
Waterton Rundle M	3 200	+ 2 594	Development
Total		<u>+18 523</u>	

TABLE 4-2 RESERVES OF POOLS CALCULATED ON AN ENERGY BASIS
As at 31 December 1989

Pool	1 Raw Gas Initial Volume in Place 10 ⁶ m ³	2 Raw Gas Gross Heating Value MJ/m ³	3 Initial Energy in Place 10 ⁶ MJ	4 Recovery Factor fraction	5 Fuel & Shrinkage (Surface Loss Factor) fraction	6 Initial Marketable Gas Energy 10 ⁶ MJ	7 Marketable Gas Gross Heating Value MJ/m ³	8 Initial Established Reserves of Marketable Gas 10 ⁶ m ³
Brazeau River Nisku J	707	74.44	52 603	0.75	0.50	19 726	41.01	481
Brazeau River Nisku K	812	72.19	58 643	0.75	0.60	17 593	41.01	429
Brazeau River Nisku M	1 489	76.22	113 463	0.75	0.60	34 039	41.36	823
Brazeau River Nisku P	9 408	61.23	576 062	0.74	0.65	149 200	40.00	3 730
Brazeau River Nisku S	1 665	54.64	90 976	0.80	0.57	31 296	41.38	756
Caroline Beaverhill Lake A	61 152	49.95	3 054 542	0.77	0.62	893 759	42.56	21 000
Carson Creek Beaverhill Lake B	10 941	55.68	609 198	0.90	0.39	334 450	41.65	8 030
Harmattan East Rundle	36 252	50.26	1 822 003	0.85	0.26	1 146 040	40.93	28 000
Harmattan-Elkton Rundle C	31 326	46.96	1 471 056	0.90	0.27	966 484	41.48	23 300
Kakwa A Cardium A	1 120	55.40	62 069	0.85	0.32	35 876	42.71	840
Kaybob Beaverhill Lake C	2 326	63.77	148 357	0.85	0.42	73 140	41.09	1 780
Kaybob South Beaverhill Lake A	104 424	47.90	5 001 905	0.70	0.58	1 470 560	40.40	36 400
Ricinus Cardium A	8 316	58.59	487 221	0.85	0.32	281 614	40.52	6 950
Ricinus Cardium B	547	56.87	31 108	0.85	0.48	13 750	40.44	340
Valhalla Halfway B	5 885	53.89	317 143	0.80	0.33	169 989	40.00	4 250
Waterton Rundle- Wabamun A	79 529	48.74 ^a	3 876 243	0.78	0.36	1 935 025	39.25	49 300
Wembley Halfway B	6 093	53.89	328 352	0.80	0.33	175 997	40.00	4 400

TABLE 4-2 (continued)

Pool	1 Raw Gas Initial Volume in Place	2 Raw Gas Gross Heating Value	3 Initial Energy in Place	4 Recovery Factor	5 Fuel & Shrinkage (Surface Loss Factor)	6 Initial Marketable Gas Energy	7 Marketable Gas Gross Heating Value	8 Initial Established Reserves of Marketable Gas
	10 ⁶ m ³	MJ/m ³	10 ⁶ MJ	fraction	fraction	10 ⁶ MJ	MJ/m ³	10 ⁶ m ³
Westerose D-3	3 597	51.55	185 422	0.90	0.25	125 160	41.72	3 000
Westpem Nisku E	1 160	66.05	76 654	0.90	0.54	31 735	44.76	709
Windfall D-3 A	21 288	53.42	1 137 217	0.60	0.53	320 695	42.42	7 560

^a Producing raw gas gross heating value is 40.65 MJ/m³.

TABLE 4-3 DISTRIBUTION OF ESTABLISHED RESERVES OF GAS BY GEOLOGICAL PERIOD
As at 31 December 1989

Geological Period	1	2	3	4	5	6	7	8
	Raw Gas	Marketable Gas			Raw Gas	Marketable Gas		
	Initial Volume in Place	Initial Established Reserves	Net Cumulative Production	Remaining Energy Content	Initial Volume in Place	Initial Established Reserves	Net Cumulative Production	Remaining Energy Content
	10 ⁶ m ³			TJ	Percentage of total			
Tertiary								
Tertiary	121	70	2	2 462				
Subtotal	121	70	2	2 462				
Upper Cretaceous								
Belly River	93 702	56 081	21 396	1 299 352	1.72	1.75	1.38	2.04
Milk River & Med Hat	422 756	278 466	138 472	5 105 139	7.80	8.70	8.93	8.03
Cardium	254 363	86 608	33 612	2 150 777	4.69	2.70	2.16	3.38
Second White Specks	4 389	2 928	444	93 743	0.08	0.09	0.02	0.14
Other	29 296	19 404	5 503	550 842	0.54	0.60	0.35	0.86
Subtotal	804 506	443 487	199 427	9 199 853	14.85	13.86	12.87	14.48
Lower Cretaceous								
Viking	389 289	270 618	153 041	4 398 826	7.18	8.45	9.87	6.92
Basal Colorado	39 249	31 854	27 033	178 530	0.72	0.99	1.74	0.28
Mannville	1 357 293	902 158	356 416	20 906 794	25.05	28.20	23.00	32.91
Other	46 055	30 707	14 763	614 185	0.85	0.95	0.95	0.96
Subtotal	1 831 886	1 235 337	551 253	26 098 335	33.81	38.61	35.58	41.09
Jurassic								
Jurassic	42 219	26 025	8 518	693 335	0.77	0.81	0.54	1.09
Other	72 643	46 849	16 366	1 202 963	1.34	1.46	1.05	1.89
Subtotal	114 862	72 874	24 884	1 896 298	2.12	2.27	1.60	2.98
Triassic								
Triassic	48 759	31 137	7 454	951 367	0.90	0.97	0.48	1.49
Other	54 322	35 798	4 415	1 221 235	1.00	1.11	0.28	1.92
Subtotal	103 081	66 935	11 869	2 172 602	1.90	2.09	0.76	3.42
Permian								
Belloy	7 079	4 412	1 143	117 237	0.13	0.13	0.07	0.18
Other	297	207	—	7 963	—	—	—	0.01
Subtotal	7 376	4 619	1 143	125 200	0.13	0.14	0.07	0.19
Mississippian								
Rundle	986 697	600 224	377 959	8 691 456	18.21	18.76	24.39	13.68
Other	81 258	56 259	30 405	992 823	1.49	1.75	1.96	1.56
Subtotal	1 067 955	656 483	408 364	9 684 279	19.71	20.52	26.35	15.24

TABLE 4-3 (continued)

	1	2	3	4	5	6	7	8
	Raw Gas	Marketable Gas			Raw Gas	Marketable Gas		
Geological Period	Initial Volume in Place	Initial Established Reserves	Net Cumulative Production	Remaining Energy Content	Initial Volume in Place	Initial Established Reserves	Net Cumulative Production	Remaining Energy Content
	10 ⁶ m ³			TJ	Percentage of total			
Upper Devonian								
Wabamun	222 567	99 307	56 719	1 586 569	4.10	3.10	3.66	2.49
Nisku	93 672	44 859	14 461	1 206 044	1.72	1.40	0.93	1.89
Leduc	466 492	237 862	168 049	2 772 275	8.61	7.43	10.84	4.36
Beaverhill Lake	401 144	173 306	68 044	4 228 540	7.40	5.41	4.39	6.65
Other	85 309	43 184	32 204	416 934	1.57	1.34	2.07	0.65
Subtotal	1 269 184	598 518	339 477	10 210 362	23.42	18.70	21.91	16.07
Middle Devonian								
Sulphur Point	12 331	8 218	903	278 833	0.22	0.25	0.05	0.43
Muskeg	4 824	2 479	397	86 202	0.08	0.07	0.02	0.13
Keg River	47 411	22 568	5 848	680 382	0.87	0.70	0.37	1.07
Other	23 106	9 571	5 730	142 783	0.42	0.29	0.36	0.22
Subtotal	87 672	42 836	12 878	1 188 200	1.61	1.33	0.83	1.87
Beyond economic reach	112 340	65 867	—	2 484 069	2.07	2.05	—	3.91
Confidential ^a	18 339	11 998	—	451 249	0.33	0.37	—	0.71
Total	5 417 322	3 199 024	1 549 297	63 512 909	100.00 ^b	100.00 ^b	100.00 ^b	100.00 ^b
	(192 281) ^c	(113 545) ^c		(60 224) ^d				

^a Some "confidential" reserves included in "beyond economic reach" category.

^b Discrepancies are due to rounding.

^c Imperial equivalent in billions of cubic feet at 14.65 pounds per square inch absolute and 60 degrees Fahrenheit.

^d Imperial equivalent in billions of cubic feet of 1000 British thermal units per cubic foot of gas.

TABLE 4-4 RESERVES OF MULTI-FIELD POOLS
As at 31 December 1989

Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³	Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³
Edmonton Pool No. 1		Medicine Hat Second White Specks K ^a	4
Bashaw Edmonton D	66	Medicine Hat Second White Specks L ^a	10
Nevis Edmonton D	342	Medicine Hat Second White Specks P ^b	5
Total	408	Newell Milk River A	957
		Princess Milk River A	7 770
Belly River Pool No. 1		Suffield Milk River A	20 700
Bashaw Belly River C	963	Verger Milk River A	5 230
Bashaw Belly River G	43	Wintering Hills Milk River A	1 290
Bashaw Belly River H	181	Total	111 608
Bashaw Belly River L	20		
Bashaw Belly River M	228	Medicine Hat Pool No. 1	
Bashaw Belly River Q	15	Alderson Medicine Hat A	2 800
Nevis Belly River C	929	Atlee-Buffalo Medicine Hat A	2 470
Total	2 379	Bantry Medicine Hat A	3 410
		Bassano Medicine Hat A	418
Belly River Pool No. 2		Berry Medicine Hat A	53
Bruce Belly River J	346	Bindloss Medicine Hat A	372
Holmberg Belly River J	86	Blackfoot Medicine Hat A	140
Total	432	Brooks Medicine Hat A	44
		Cassils Medicine Hat A	840
Belly River Pool No. 3		Cessford Medicine Hat A	7 250
Fenn-Big Valley Belly River J	306	Connorsville Medicine Hat A	1 920
Gadsby Belly River J	1 560	Countess Medicine Hat A	7 670
Total	1 866	Estuary Medicine Hat A	136
		Eyremore Medicine Hat A	118
Milk River Pool No. 1		Gleichen Medicine Hat A	580
Alderson Milk River A	13 400	Hussar Medicine Hat A	2 950
Atlee-Buffalo Milk River A	5 500	Jenner Medicine Hat A	1 300
Bantry Milk River A	5 980	Kitsim Medicine Hat A	270
Bindloss Milk River A	1 010	Lathom Medicine Hat A	245
Bow Island Milk River A	67	Leckie Medicine Hat A	158
Brooks Milk River A	295	Matziwin Medicine Hat A	1 430
Cassils Milk River A	1 650	Medicine Hat Medicine Hat A	50 000
Cessford Milk River A	2 780	Mossleigh Medicine Hat A	28
Connorsville Milk River A	676	Newell Medicine Hat A	79
Countess Milk River A	5 890	Princess Medicine Hat A	4 350
Hussar Belly River C	30	Seiu Lake Medicine Hat A	581
Hussar Milk River A	128	Shouldice Medicine Hat A	640
Jenner Milk River A	3 510	Suffield Medicine Hat A	11 200
Johnson Milk River A	356	Verger Medicine Hat A	6 000
Kitsim Milk River A	125	Wayne-Rosedale Medicine Hat A	1 130
Leckie Milk River A	365	Wintering Hills Medicine Hat A	3 980
Matziwin Milk River A	1 880	Total	112 562
Medicine Hat Milk River A	30 600		
Medicine Hat Second White Specks D ^a	1 400		

TABLE 4-4 (continued)

Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³	Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³
Medicine Hat Pool No. 3			
Alderson Medicine Hat C	670	Bantry Second White Specks A	1 780
Atlee-Buffalo Medicine Hat C	11	Bow Island Second White Specks A	830
Bantry Medicine Hat C	915	Bow Island Second White Specks C ^e	7
Bow Island Medicine Hat C	12	Cessford Second White Specks A	410
Brooks Medicine Hat C	26	Countess Second White Specks A	536
Cassils Medicine Hat C	100	Jenner Second White Specks A	1 130
Cessford Medicine Hat C	221	Johnson Second White Specks A	98
Countess Medicine Hat C	104	Matziwin Second White Specks A	60
Eyremore Medicine Hat C	29	Medicine Hat Second White Specks A	5 200
Jenner Medicine Hat C	36	Princess Second White Specks A	5 530
Leckie Medicine Hat C	12	Suffield Second White Specks A	11 300
Matziwin Medicine Hat C	33	Verger Second White Specks A	2 590
Medicine Hat Medicine Hat C	2 600	Total	<u>42 018</u>
Medicine Hat Second White Specks J ^c	314		
Medicine Hat Second White Specks M ^d	9	Bow Island Pool No. 1	
Medicine Hat Lower Colorado Sand A ^c	250	Medicine Hat Bow Island C	332
Newell Medicine Hat C	54	Suffield Bow Island C	<u>311</u>
Princess Medicine Hat C	357	Total	<u>643</u>
Suffield Medicine Hat C	844		
Verger Medicine Hat C	134	Viking Pool No. 1	
Total	<u>6 731</u>	Fairydell-Bon Accord Upper Viking A	1 050
Medicine Hat Pool No. 4		Fairydell-Bon Accord Middle Viking A	2 800
Alderson Medicine Hat D	194	Fairydell-Bon Accord Middle Viking B	511
Atlee-Buffalo Medicine Hat D	22	Peavey Upper Viking A	12
Bantry Medicine Hat D	82	Redwater Upper Viking A	1 940
Bindloss Medicine Hat D	3	Redwater Middle Viking A	601
Brooks Medicine Hat D	4	Redwater Lower Viking A	299
Cessford Medicine Hat D	545	Westlock Middle Viking B	<u>323</u>
Countess Medicine Hat D	60	Total	<u>7 536</u>
Jenner Medicine Hat D	70		
Matziwin Medicine Hat D	101	Viking Pool No. 2	
Medicine Hat Medicine Hat D	2 400	Beaverhill Lake Upper Viking A & B, Middle Viking A, and Lower Viking A	4 800
Newell Medicine Hat D	18	Bellshill Lake Upper Viking A	104
Princess Medicine Hat D	253	Birch Upper and Middle Viking A	42
Suffield Medicine Hat D	1 000	Bruce Upper Viking A & F, Middle Viking A & B, and Upper Mannville Z	3 910
Verger Medicine Hat D	240	Dinant Upper Viking A	69
Total	<u>4 992</u>		
Second White Specks Pool No. 1			
Alderson Second White Specks A	12 500		
Atlee-Buffalo Second White Specks A	47		

TABLE 4-4 (continued)

Multi-field Pool Field and Pool	Initial Established Reserves <hr/> 10 ⁶ m ³	Multi-field Pool Field and Pool	Initial Established Reserves <hr/> 10 ⁶ m ³
Fort Saskatchewan Upper and Middle Viking A	7 500	Plain Viking A	18
Holmberg Upper Viking A	82	St. Paul Viking A	200
Killam Upper and Middle Viking A	1 400	Stry Viking A	185
Killam North Upper and Middle Viking A, Basal		Sugden Viking A	2 560
Mannville C & U, and Nisku A	1 135	Therien Viking A	165
Mannville Upper and Middle Viking A	277	Ukalta Viking A	131
Sedgewick Upper Viking A	178	Whitford Viking A	404
Viking-Kinsella Upper and Middle Viking A and Upper Mannville YY	29 000	Willingdon Viking A	202
Total	<u>48 497</u>	Willingdon Viking B	4
		Total	<u>10 705</u>
Viking Pool No. 3		Viking Pool No. 7	
Carbon Viking D	1 400	Inland Upper Viking C & E and Middle Viking F, G, & I	268
Ghost Pine Viking D	208	Royal Upper Viking C and Lower Viking A	43
Total	<u>1 608</u>	Total	<u>311</u>
Viking Pool No. 4		Viking Pool No. 10	
Fenn-Big Valley Viking B	590	Goodridge Viking F	114
Fenn West Viking B	200	Jarvie Viking F	94
Lousana Viking B	12	Westlock Viking F	251
Total	<u>802</u>	Total	<u>459</u>
Viking Pool No. 5		Viking Pool No. 11	
Hudson Viking A	687	Jarvie Viking G	65
Sedalia Viking A, Viking F, Upper Mannville D, and Lower Mannville B	419	Westlock Viking G	112
Total	<u>1 106</u>	Total	<u>177</u>
Viking Pool No. 6		Viking Pool No. 12	
Ashmont Viking A	448	Atlee-Buffalo Viking A	15
Cache Viking A	895	Suffield Viking A	32
Canard Viking A	152	Total	<u>47</u>
Clay Viking A	430	Viking Pool No. 13	
Corrin Viking A	291	Chigwell Viking G	95
Craigend Viking A	3 600	Nelson Viking G	164
Duvernay Viking A	637	Total	<u>259</u>
Duvernay Viking M	23	St. Edouard Pool No. 3	
Hairy Hill Viking A	295	Ukalta St. Edouard B	60
Owlseye Viking A	65	Whitford St. Edouard B	34
		Total	<u>94</u>

TABLE 4-4 (continued)

Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³	Multi-field Pool Field and Pool	Initial Established Reserves 10 ⁶ m ³
Glaucanitic Pool No. 3		Hotchkiss Bluesky-Detrital-Debolt A	2 870
Bonnie Glen Glaucanitic A	1 050	Total	4 590
Ferrybank Glaucanitic A	1 120		
Total	2 170	Gething Pool No. 1	
Glaucanitic Pool No. 4		Fox Creek Gething D	136
Cessford Glaucanitic T	248	Fox Creek Gething H	4 210
Cessford Mannville HH	779	Kaybob South Gething H	1 170
Wayne-Rosedale Glaucanitic T	1 540	Total	5 516
Total	2 567	Ellerslie Pool No. 1	
Glaucanitic Pool No. 5		Connorsville Glaucanitic A	232
Bigoray Glaucanitic I	1 140	Connorsville Glaucanitic B	22
Pembina Glaucanitic I	2 550	Connorsville Glaucanitic C	168
Pembina Lobstick Glaucanitic D	91	Connorsville Glaucanitic E	140
Pembina Ostracod C	131	Connorsville Glaucanitic I	22
Total	3 912	Connorsville Ellerslie A	2 750
Glaucanitic Pool No. 6		Wintering Hills Ellerslie A	1 530
Countess Glaucanitic III	1 350	Total	4 864
Countess Upper Mannville LL	48	Cadomin Pool No. 1	
Hussar Glaucanitic III	409	Elmworth Cadomin A	4 730
Wintering Hills Glaucanitic III	57	Sinclair Cadomin A	2 750
Total	1 864	Wapiti Cadomin A	6 000
Bluesky Pool No. 1		Total	13 480
Boyer Bluesky A & Gething A	11 375	Halfway Pool No. 1	
Haro Bluesky A	4 958	Valhalla Halfway B	4 250
Rainbow Bluesky A	4 637	Wembley Halfway B	6 315
Rainbow South Bluesky A	137	Total	10 565
Sousa Bluesky A	928	Banff Pool No. 1	
Steen Bluesky A	376	Haro Banff E	66
Virgo Bluesky A	320	Rainbow Banff E	13
Total	22 731	Rainbow South Banff E	59
Bluesky-Detrital-Debolt Pool No. 1		Total	138
Cranberry Bluesky-Detrital-Debolt A	1 720		

^a Also commingled with the Medicine Hat Medicine Hat A, C, and D pools.

^b Also commingled with the Medicine Hat Medicine Hat C and D and Second White Specks A pools.

^c Also commingled with the Medicine Hat Medicine Hat D Pool.

^d Also commingled with the Medicine Hat Medicine Hat D and Medicine Hat Second White Specks A pools.

^e Also commingled with the Bow Island Medicine Hat A, C, and D pools.



Reserves of Gas and Basic Data

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ABEE 062-23W4 TOTAL-ABEE	2 486			1 564	672	892		33 519	
ACADIA 026-04W4 TOTAL-ACADIA	219			152	3	149		5 500	
ACHESON 052-26W4 D-3 A SOLN	2 669	0.68	0.30	1 271	1 193	78	43	3 386	
OTHER	2 107			1 248	273	975		39 932	
TOTAL-ACHESON	4 776			2 519	1 466	1 053		43 318	
ACHESON EAST 052-26W4 TOTAL-ACHESON EAST	679			306	33	273		10 454	
ACME 029-25W4 TOTAL-ACME	331			214		214		8 117	
ADEN 001-09W4 RUNDLE A	958	0.85	0.15	692	355	337	37	12 499	711
OTHER	576			392	233	159		5 924	
TOTAL-ADEN	1 534			1 084	588	496		18 423	
AERIAL 029-18W4 TOTAL-AERIAL	840			493	93	400		15 244	
AETNA (SA) 002-25W4 TOTAL-AETNA	136			98		98		3 700	
AKUINU 066-04W5 TOTAL-AKUINU	557			386	180	206		7 727	
ALBERS 041-07W4 TOTAL-ALBERS	133			90		90		3 208	
ALBRIGHT 072-09W6 TOTAL-ALBRIGHT	924			652		652		25 400	
ALCOMDALE 058-26W4 TOTAL-ALCOMDALE	8			5	5				
ALDER 045-08W5 TOTAL-ALDER	161			109		109		4 413	
ALDERSON 015-11W4 MILK RIVER A	20 150	0.70	0.05	13 400			36		157 212
MEDICINE HAT A	4 124	0.70	0.03	2 800			36		67 799
MEDICINE HAT C	1 382	0.50	0.03	670			36		57 415
MEDICINE HAT D	400	0.50	0.03	194			36		16 618
SECOND WHITE SPECKS A	17 544	0.75	0.05	12 500			36		144 504
SE ALTA GAS SYS(MU) TOTAL	43 600	0.70	0.05	29 564	16 138	13 426	36	489 646	
BOW ISLAND D	491	0.80	0.05	373	185	188	37	6 954	1 333
UPPER MANNVILLE M	442	0.85	0.10	338	19	319	36	11 382	440
UPPER MANNVILLE LLL	611	0.85	0.10	467	247	220	36	7 942	323
OTHER	7 959			5 278	1 181	4 097		149 999	
TOTAL-ALDERSON	53 103			36 020	17 770	18 250		665 923	
ALEXANDER 056-27W4 BASAL QUARTZ A	4 299	0.94	0.03	3 920	3 918	2	39	77	4 698
OTHER	646			415	104	311		11 999	
TOTAL-ALEXANDER	4 945			4 335	4 022	313		12 076	
ALEXIS 056-05W5 BANFF A SOLN	387	0.65	0.40	151b		219	39	8 598	320
BANFF A ASSOC	306	0.85	0.10	234b	166b	204	39	7 805	
OTHER	310			208	4	204			
TOTAL-ALEXIS	1 003			593	170	423		16 403	
ALIX 040-23W4 TOTAL-ALIX	707			347	112	235		8 858	
ALKALI 024-05W4 TOTAL-ALKALI	77			55		55		2 011	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
						0.88		1950	1986	ESSO
10.10	0.120	0.65	6 850	24	0.877	0.58	868.6	1960	1989	CMG MATERIAL BALANCE
5.05	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
1.41	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1982	PART OF MED HAT POOL NO.1
0.61	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.3
0.61	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1988	PART OF MED HAT POOL NO.4
1.57	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	PART OF 2WS POOL NO.1
2.88	0.277	0.65	6 560	25	0.881	0.58	736.6	1904	1988	CWNGNUL SCEPTRE ESSO KANNGAZ TCPL CTYMEDH
6.00	0.200	0.65	11 270	33	0.814	0.66	1 003.3	1981	1989	SCEPTRE TCPL
7.81	0.228	0.85	8 090	31	0.849	0.66	991.5	1971	1983	TCPL
								1972	1989	A&S PRODUCTION DECLINE
3.11	0.220	0.80	9 210	45	0.850	0.63	1 168.1	1954	1986	POCO MATERIAL BALANCE
9.34	0.131	0.65	11 410	52	0.831	0.65	1 351.5	1968	1987	PANALTA CONCURRENT PRODUCTION
						0.65		1968	1987	PANALTA CONCURRENT PRODUCTION

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ALLIANCE 040-13W4 TOTAL-ALLIANCE	64			41	1	40		1 474	
ALSASK 027-01W4 TOTAL-ALSASK	655			460	143	317		11 623	
ALSIKE 049-02W5 TOTAL-ALSIKE	13			10		10		371	
ALTARIO 034-01W4 TOTAL-ALTARIO	880			598	24	574		20 825	
AMADOU 073-20W4 TOTAL-AMADOU	98			57		57		2 082	
AMBER 115-07W6 TOTAL-AMBER	2 466			1 503	212	1 291		49 679	
AMELIA (SA) 010-27W4 TOTAL-AMELIA	26			16		16		633	
AMIGO 119-07W6 TOTAL-AMIGO	1 678			1 030		1 030		40 656	
ANATOLE 031-03W4 TOTAL-ANATOLE	149			96	2	94		3 565	
ANGLING 060-02W4 GRAND RAPIDS B		0.65	0.05				36		3 223
GRAND RAPIDS C		0.65	0.05				37		200
GRAND RAPIDS D		0.60	0.05				37		150
GRAND RAPIDS E		0.55	0.05				37		128
SPARKY A		0.65	0.05				37		200
GR RAP BCDE & SPKY A TOTAL	907	0.75	0.05	646	559	87	37	3 208	
OTHER	108			66	25	41		1 502	
TOTAL-ANGLING	1 015			712	584	128		4 710	
ANGLO 019-19W4 TOTAL-ANGLO	297			211	47	164		5 818	
ANKERTON 044-15W4 TOTAL-ANKERTON	569			364		364		13 324	
ANNE (SA) 003-21W4 TOTAL-ANNE	81			58		58		1 895	
ANSELL 052-20W5 CARDIUM A	346	0.20	0.10	62			41		400
CARDIUM B	126	0.60	0.15	65			42		200
CARDIUM C	73	0.60	0.10	40			40		200
CARDIUM FF	13 000	0.20	0.10	2 340			41		13 778
CARDIUM A,B,C & FF TOTAL	13 545	0.20	0.10	2 507	303	2 204	41	89 945	
VIKING A	389	0.65	0.10	228			39		714
CADOMIN B	693	0.65	0.10	405			38		1 019
VIKING A & CADOMIN B TOTAL	1 082	0.65	0.10	633	15	618	39	23 799	
BLUESKY A	584	0.75	0.10	394	4	390	40	15 655	774
CADOMIN A	511	0.85	0.10	391	4	387	40	15 391	646
CADOMIN C	532	0.85	0.05	429	5	424	39	16 714	673
OTHER	2 010			1 377	121	1 256		49 087	
TOTAL-ANSELL	18 264			5 731	452	5 279		210 591	
ANTE CREEK 065-24W5 PEACE RIVER A	608	0.80	0.05	462	145	317	39	12 468	1 706
BEAVERHILL LAKE SOLN	2 028	0.60	0.20	974	879	95	44	4 220	
OTHER	754			445	-14	459		19 285	
TOTAL-ANTE CREEK	3 390			1 881	1 010	871		35 973	
ANTE CREEK NORTH 067-23W5 TOTAL-ANTE CREEK NORTH	1 118			794	3	791		30 685	
ANTELOPE 030-01W4 COLONY A	503	0.85	0.05	407	142	265	37	9 771	3 333

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.79	0.286	0.85	2 460	12	0.949	0.58	327.3	1981	1988	PRODUCTION DECLINE
1.00	0.320	0.60	2 500	13	0.947	0.56	326.5	1982	1988	PRODUCTION DECLINE
1.10	0.310	0.55	2 450	15	0.949	0.56	368.8	1981	1988	PRODUCTION DECLINE
1.60	0.280	0.60	2 290	14	0.952	0.56	309.6	1982	1988	PRODUCTION DECLINE
1.00	0.310	0.50	2 600	13	0.945	0.56	340.7	1982	1988	PRODUCTION DECLINE
								1981	1988	TRITON CNG
5.90	0.100	0.70	19 990	61	0.813	0.67	2 216.6	1981	1988	
4.70	0.090	0.75	19 770	77	0.812	0.74	2 147.8	1980	1988	
2.20	0.115	0.75	19 840	76	0.840	0.70	2 147.5	1986	1988	
5.49	0.115	0.75	20 010	74	0.823	0.71	2 174.5	1976	1989	
								1976	1989	PANALTA DIRECT A&S NRTHRGE DEKALB CONHUNT KANNGAZ TCPL
2.00	0.139	0.80	29 270	87	0.945	0.65	2 712.1	1976	1987	
5.27	0.084	0.75	25 370	104	0.934	0.69	3 045.1	1976	1987	
								1976	1987	
4.33	0.094	0.75	32 000	103	0.979	0.67	2 991.9	1974	1989	NRTHRGE
4.73	0.091	0.75	28 560	83	0.932	0.65	3 112.8	1974	1987	
4.80	0.099	0.75	28 780	107	0.971	0.62	2 981.1	1980	1987	WCST PANALTA DIRECT KANNGAZ TCPL
2.24	0.195	0.65	12 130	54	0.840	0.62	1 665.7	1962	1989	TCPL
						0.86		1962	1988	TCPL
1.49	0.302	0.40	7 650	26	0.867	0.58	767.0	1957	1989	CANST

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ANTELOPE 030-01W4 (CONTINUED)									
OTHER	1 688			1 049	359	690		25 126	
TOTAL-ANTELOPE	2 191			1 456	501	955		34 897	
ANTHONY (SA) 083-24W5									
TOTAL-ANTHONY	32			16		16		613	
ANTLER (SA) 048-24W5									
BL 31-048-23	839	0.90	0.10	680		680	37	25 310	150
PEK 33-048-24	702	0.80	0.10	506		506	40	20 038	128
TOTAL-ANTLER	1 541			1 186		1 186		45 348	
APETOWUN (SA) 052-22W5									
NIS 22-052-22	873	0.75	0.45	360		360	36	13 118	200
OTHER	184			124		124		4 671	
TOTAL-APETOWUN	1 057			484		484		17 789	
APHRODITES (SA) 014-01W5									
TOTAL-APHRODITES	317			242		242		10 500	
ARDENODE 026-25W4									
TOTAL-ARDENODE	72			48		48		1 767	
ARGUS (SA) 103-08W6									
TOTAL-ARGUS	53			32		32		1 159	
ARMADA 016-19W4									
TOTAL-ARMADA	1 022			699	247	452		16 753	
ARMISIE 052-25W4									
TOTAL-ARMISIE	219			89	25	64		2 610	
ARMITAGE 074-14W4									
TOTAL-ARMITAGE	366			204		204		7 470	
ARNESON 025-02W4									
TOTAL-ARNESON	358			249	56	193		7 051	
ARTLAND 044-02W4									
TOTAL-ARTLAND	273			183		183		6 667	
ARVILLA 058-27W4									
TOTAL-ARVILLA	349			226	18	208		7 881	
ASHMONT 060-11W4									
VIKING A	1 179	0.40	0.05	448		448	37	16 710	21 610
OTHER	937			596	216	380		14 243	
TOTAL-ASHMONT	2 116			1 044	216	828		30 953	
ASTOTIN 054-19W4									
TOTAL-ASTOTIN	412			250	108	142		5 216	
ATHABASCA 066-23W4									
GRAND RAPIDS B	663	0.80	0.05	504	278	226	38	8 658	2 155
OTHER	1 339			889	287	602		22 500	
TOTAL-ATHABASCA	2 002			1 393	565	828		31 158	
ATHABASCA EAST 066-22W4									
D-1 B	587	0.75	0.05	418	279	139	37	5 194	660
OTHER	1 652			1 083	567	516		19 342	
TOTAL-ATHABASCA EAST	2 239			1 501	846	655		24 536	
ATIM 054-26W4									
TOTAL-ATIM	116			85	42	43		1 606	
ATLEE-BUFFALO 021-08W4									
MILK RIVER A	8 270	0.70	0.05	5 500			36		70 290
MEDICINE HAT A	3 637	0.70	0.03	2 470			36		63 389
MEDICINE HAT C	22	0.50	0.03	11			36		1 053
MEDICINE HAT D	45	0.50	0.03	22			36		2 656

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
22.82 30.84	0.200 0.090	0.65 0.80	20 820 33 270	84 108	0.880 1.006	0.71 0.64	2 088.3 4 015.2	1977 1977	1988 1982	BER BER TOP/BASE TVD
57.69	0.040	0.65	35 300	109	0.903	0.80	4 121.7	1981	1982	
1.03	0.253	0.50	3 890	15	0.917	0.58	420.1	1949	1988	PANALTA MIP PWGE TCPL PART OF VIK POOL NO.6
3.41	0.356	0.65	3 640	17	0.916	0.60	491.6	1952	1981	AMOCO TCPL
8.77	0.176	0.50	3 720	30	0.935	0.56	605.8	1970	1988	TCPL PRODUCTION DECLINE
4.65	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
1.33	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	PART OF MED HAT POOL NO.1
0.53	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.3
0.43	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.4

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ATLEE-BUFFALO 021-08W4 (CONTINUED)									
SECOND WHITE SPECKS A	65	0.75	0.05	47			36		1 073
SE ALTA GAS SYS (MU) TOTAL	12 039	0.70	0.05	8 050	3 592	4 458	36	162 583	
VIKING H	811	0.85	0.05	655	560	95	36	3 391	11 442
OTHER	4 506			2 914	532	2 382		86 216	
TOTAL-ATLEE-BUFFALO	17 356			11 619	4 684	6 935		252 190	
ATMORE 067-17W4									
MCMURRAY A	700	0.80	0.05	532	168	364	37	13 497	10 229
MCMURRAY B		0.70	0.05				37		3 734
NISKU A		0.70	0.05				37		1 883
NISKU A & MCMURRAY B TOTAL	1 774	0.70	0.05	1 180	901	279	37	10 312	
OTHER	2 277			1 376	602	774		28 697	
TOTAL-ATMORE	4 751			3 088	1 671	1 417		52 506	
AUBURNDALE 047-06W4									
TOTAL-AUBURNDALE	1 121			726	379	347		12 645	
BADGER 016-18W4									
TOTAL-BADGER	1 144			824	54	770		28 862	
BALSAM 082-10W6									
KISKATINAW A	945	0.85	0.05	763	330	433	37	16 203	1 086
OTHER	992			724	43	681		26 205	
TOTAL-BALSAM	1 937			1 487	373	1 114		42 408	
BANSHEE 050-22W5									
LED 14-050-22	957	0.85	0.45	447		447	37	16 593	200
TOTAL-BANSHEE	957			447		447		16 593	
BANTRY 016-13W4									
MILK RIVER A	8 993	0.70	0.05	5 980			36		78 738
MEDICINE HAT A	5 021	0.70	0.03	3 410			36		71 404
MEDICINE HAT C	1 886	0.50	0.03	915			36		43 059
MEDICINE HAT D	170	0.50	0.03	82			36		6 948
SECOND WHITE SPECKS A	2 499	0.75	0.05	1 780			36		34 379
SE ALTA GAS SYS (MU) TOTAL	18 569	0.70	0.05	12 167	7 869	4 298	36	156 748	
VIKING U	491	0.75	0.05	350			38		4 074
VIKING V	39	0.75	0.05	28			38		200
VIKING W	23	0.75	0.05	16			38		200
BASAL COLORADO C	182	0.75	0.05	130			36		1 328
VIKING T	7	0.75	0.05	5			38		200
VIK TUVW & BSL COLO C TOTAL	742	0.75	0.05	529	312	217	37	8 072	
MANNVILLE A ASSOC	277	0.90	0.10	224b			37		488
MANNVILLE A SOLN	2 960	0.25	0.50	370b			37		
MANNVILLE A ASSOC	282	0.90	0.10	229b			37		634
MANNVILLE A ASSOC	16	0.90	0.10	13b			37		48
MANNVILLE A ASSOC	262	0.90	0.10	212b			37		530
MANNVILLE A ASSOC	10	0.90	0.10	8b			37		32
MANNVILLE A ASSOC	28	0.90	0.10	23b			37		128
MANNVILLE A ASSOC	29	0.90	0.10	23b			37		64
MANNVILLE A ASSOC	2	0.90	0.10	2b			37		32
MANNVILLE A ASSOC	7	0.90	0.10	5b			37		32
MANNVILLE A ASSOC	35	0.90	0.10	29b			37		68
MANNVILLE A ASSOC	8	0.90	0.10	6b			37		28
MANNVILLE A TOTAL	3 916	0.40	0.30	1 144b	658b	486	37	18 060	
OTHER	5 164			3 436	1 612	1 824		67 775	
TOTAL-BANTRY	28 391			17 276	10 451	6 825		250 655	
BAPTISTE 067-22W4									
MANNVILLE C	26	0.70	0.05	17			38		100
MANNVILLE G	741	0.80	0.05	563			39		3 477
MANNVILLE N	22	0.70	0.05	14			38		200
MANNVILLE O	30	0.70	0.05	20			38		200
MANNVILLE P	51	0.70	0.05	34			38		200
MANNVILLE C,G,N,O&P TOTAL	870	0.80	0.05	648	257	391	38	15 038	
WABAMUN C	932	0.75	0.05	664	170	494	38	18 925	2 002
WABAMUN E	1 243	0.70	0.05	827	707	120	37	4 483	1 549
OTHER	1 291			856	263	593		22 217	
TOTAL-BAPTISTE	4 336			2 995	1 397	1 598		60 663	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
0.78	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	PART OF 2WS POOL NO.1 PROGAS PANALTA CWNGNUL CANST TCPL TCPL MATERIAL BALANCE
1.29	0.250	0.50	6 830	27	0.885	0.59	783.5	1904	1986	
								1955	1982	
1.84	0.235	0.60	2 630	25	0.951	0.57	510.7	1968	1987	PROGAS PANALTA TCPL MATERIAL BALANCE
1.66	0.273	0.55	2 840	20	0.945	0.56	520.7	1960	1987	
6.57	0.158	0.65	2 860	25	0.948	0.56	507.9	1967	1987	
								1960	1985	
5.41	0.128	0.80	17 200	77	0.890	0.60	1 866.7	1974	1986	TCPL
47.54	0.044	0.85	42 040	166	1.012	0.84	4 580.6	1977	1981	PANALTA
4.51	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE PART OF MED HAT POOL NO.1 PART OF MED HAT POOL NO.3 PART OF MED HAT POOL NO.4 PART OF 2WS POOL NO.1 POCO PANALTA CWNGNUL TCPL
1.63	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	
1.11	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	
0.62	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	
0.94	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	
								1904	1986	
1.95	0.161	0.50	7 100	29	0.871	0.59	793.4	1973	1986	
2.47	0.140	0.70	7 380	27	0.863	0.59	814.4	1973	1988	
1.85	0.170	0.45	7 450	27	0.862	0.59	830.0	1973	1988	
1.13	0.200	0.65	8 550	30	0.859	0.61	881.9	1946	1986	
0.61	0.170	0.40	7 140	27	0.858	0.61	807.6	1973	1988	CWNGNUL TCPL GPP GPP ASSIGNED WELL 16-15-018-13W4M ASSIGNED WELL 10-26-017-13W4M ASSIGNED WELL 12-34-017-12W4M ASSIGNED WELL 12-01-018-13W4M ASSIGNED WELL 01-02-018-13W4M TCPL GPP
2.32	0.265	0.70	10 780	30	0.768	0.71	978.0	1946	1986	
						0.71		1947	1989	
1.82	0.265	0.70	10 780	30	0.768	0.71	981.4	1947	1989	
1.37	0.265	0.70	10 780	30	0.768	0.71	989.2	1947	1985	
2.03	0.260	0.70	10 910	30	0.765	0.72	992.5	1947	1985	
1.22	0.265	0.70	10 780	30	0.768	0.72	997.3	1947	1985	
0.91	0.265	0.70	10 780	30	0.768	0.72	993.1	1947	1985	
1.83	0.265	0.70	10 780	30	0.768	0.72	990.6	1947	1985	
0.30	0.260	0.70	10 780	30	0.768	0.72	989.2	1947	1985	
0.92	0.260	0.70	10 780	30	0.768	0.72	989.3	1947	1985	TCPL TCPL TCPL PRODUCTION DECLINE
2.06	0.268	0.70	10 960	30	0.766	0.71	997.3	1947	1985	
1.09	0.265	0.70	10 780	30	0.768	0.71	986.6	1947	1988	
								1947	1989	
3.05	0.350	0.65	3 610	24	0.932	0.55	528.9	1966	1988	
3.23	0.285	0.65	3 450	23	0.931	0.57	424.7	1966	1982	
1.67	0.270	0.65	3 560	17	0.927	0.55	453.0	1966	1979	
1.83	0.330	0.65	3 570	17	0.927	0.55	456.8	1966	1979	
2.75	0.330	0.75	3 570	17	0.927	0.55	464.1	1966	1979	
								1966	1982	
9.31	0.190	0.75	3 480	29	0.934	0.59	601.2	1976	1982	
5.02	0.150	0.70	3 520	29	0.936	0.57	584.9	1959	1987	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BARE (SA) 003-03W4 TOTAL-BARE	55			42		42		1 554	
BARK (SA) 121-07W6 TOTAL-BARK	265			180		180		6 428	
BARRHEAD 058-04W5 TOTAL-BARRHEAD	† 25†			850		850		32 582	
BARTMAN 025-09W4 TOTAL-BARTMAN	200			143	13	130		4 823	
BASELINE 061-14W5 TOTAL-BASELINE	15			10		10		325	
BASHAW 042-22W4									
BELLY RIVER C	1 561	0.65	0.05	963			37		19 000
BELLY RIVER G	69	0.65	0.05	43			37		787
BELLY RIVER H	292	0.65	0.05	181			37		3 511
BELLY RIVER L	33	0.65	0.05	20			38		250
BELLY RIVER O	25	0.65	0.05	15			37		250
BELLY RIVER M	343	0.70	0.05	228			37		761
B RIVER C,G,H,L,M&O TOTAL	2 323	0.65	0.05	1 450	664	786	37	28 909	
D-3 A SOLN	261	0.65	0.15	145 ^b			36		
D-3 A ASSOC	460	0.85	0.20	313 ^b	296 ^b	162	36	5 850	1 125
OTHER	4 510			2 794	853	1 941		72 562	
TOTAL-BASHAW	7 554			4 702	1 813	2 889		107 321	
BASING 048-20W5									
RUND * 048-20	3 140	0.40	0.10	1 130		1 130	38	43 245	2 477
TV 048-21	1 407	0.40	0.10	507		507	38	19 038	1 710
OTHER	393			249	90	159		6 116	
TOTAL-BASING	4 940			1 886	90	1 796		68 399	
BASSANO 021-18W4									
MEDICINE HAT A	616	0.70	0.03	418			36		501
SE ALTA GAS SYS (MU) TOTAL	616	0.70	0.05	418	1	417	36	15 208	
BI SS 021-21	540	0.75	0.05	385		385	36	13 879	2 625
OTHER	1 917			1 304	500	804		29 741	
TOTAL-BASSANO	3 073			2 107	501	1 606		58 828	
BATTLE 046-20W4 TOTAL-BATTLE	133			78		78		2 884	
BATTLE SOUTH 045-20W4 TOTAL-BATTLE SOUTH	370			230	50	180		6 811	
BAXTER LAKE 047-05W4									
MANNVILLE B	502	0.85	0.05	406	352	54	34	1 811	917
OTHER	609			375	172	203		7 092	
TOTAL-BAXTER LAKE	1 111			781	524	257		8 903	
BEAR CANYON 082-12W6 TOTAL-BEAR CANYON	355			254		254		9 851	
BEARHILL LAKE (SA) 045-26W4 TOTAL-BEARHILL LAKE	386			253		253		9 810	
BEATON 087-02W6 TOTAL-BEATON	1 307			863	481	382		14 045	
BEATTY LAKE (SA) 122-02W6 TOTAL-BEATTY LAKE	171			111		111		4 146	
BEAUVALLON 053-10W4									
COLONY K	1 783	0.75	0.05	1 270	1 265	5	37	187	3 278
COLONY L	1 126	0.65	0.05	695	630	65	38	2 443	3 072
COLONY P	588	0.75	0.05	419	113	306	37	11 383	5 110
OTHER	2 815			1 881	697	1 184		43 697	
TOTAL-BEAUVALLON	6 312			4 265	2 705	1 560		57 710	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.94	0.248	0.40	2 020	22	0.961	0.57	515.0	1977	1989	PART OF BR POOL NO.1
1.68	0.274	0.45	4 100	25	0.927	0.56	618.4	1980	1985	PART OF BR POOL NO.1
1.81	0.260	0.40	4 220	22	0.922	0.56	650.0	1978	1989	PART OF BR POOL NO.1
3.00	0.250	0.40	4 300	27	0.924	0.55	645.3	1981	1988	PART OF BR POOL NO.1
2.50	0.230	0.40	4 140	21	0.922	0.56	619.5	1981	1988	PART OF BR POOL NO.1
4.44	0.295	0.50	4 250	23	0.922	0.56	652.2	1982	1986	PART OF BR POOL NO.1 PRODUCTION DECLINE
								1977	1989	GULF PANALTA A&S KANNGAZ DEKALB TCPL PART
										OF BR POOL NO.1
5.22	0.054	0.85	16 060	60	0.804	0.77	1 754.7	1951	1987	DEKALB TCPL CONCURRENT PRODUCTION
								1951	1987	DEKALB TCPL CONCURRENT PRODUCTION
9.92	0.064	0.85	33 630	123	1.028	0.63	3 919.2	1975	1986	PANALTA TOP/BASE TVD
9.51	0.045	0.80	32 000	119	1.019	0.63	3 802.4	1978	1986	PANALTA TCPL TOP/BASE TVD
1.66	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	PART OF MED HAT POOL NO.1
								1904	1983	PANALTA TCPL KANNGAZ
2.20	0.197	0.55	8 160	33	0.879	0.58	1 144.7	1988	1989	PROGAS TCPL
2.60	0.262	0.65	4 560	24	0.922	0.61	702.5	1975	1988	PANALTA TCPL PRODUCTION DECLINE
4.56	0.280	0.75	4 260	21	0.917	0.57	564.4	1973	1985	PANALTA CWNGNUL TCPL MATERIAL BALANCE
3.98	0.284	0.75	3 780	19	0.924	0.57	533.1	1976	1988	PANALTA ESSO CWNGNUL TCPL MATERIAL BALANCE
1.82	0.280	0.60	3 560	17	0.927	0.57	482.9	1972	1985	PROGAS PANALTA TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BEAVER CROSSING 062-01W4 TOTAL-BEAVER CROSSING	115			63	35	28		1 009	
BEAVERHILL LAKE 052-19W4 UPPER VIKING A		0.80	0.03				37		200
UPPER VIKING B		0.80	0.03				37		5 685
MIDDLE VIKING A		0.85	0.03				37		33 875
LOWER VIKING A		0.80	0.03				37		13 933
UVIK AB,MVIK A&LVIK A TOTAL	6 186	0.80	0.05	4 800	4 097	703	37	25 934	
OTHER	2 167			1 411	451	960		35 406	
TOTAL-BEAVERHILL LAKE	8 353			6 211	4 548	1 663		61 340	
BEAVERLODGE 072-10W6 TOTAL-BEAVERLODGE	360			250		250		9 748	
BELLIS 059-15W4 UPPER MANNVILLE B	942	0.80	0.05	716	618	98	38	3 680	4 387
UPPER MANNVILLE E		0.75	0.05				37		2 338
UPPER MANNVILLE F		0.75	0.05				38		1 531
UPPER MANNVILLE G		0.75	0.05				38		1 177
UPPER MANNVILLE H		0.75	0.05				38		200
U MANN E,F,G & H TOTAL	1 200	0.75	0.05	855	759	96	37	3 589	
OTHER	5 294			3 361	1 593	1 768		65 739	
TOTAL-BELLIS	7 436			4 932	2 970	1 962		73 008	
BELLOY 078-01W6 CADOTTE A	548	0.80	0.05	416	84	332	37	12 433	3 033
DEBOLT B	494	0.80	0.10	356	131	225	39	8 813	890
OTHER	3 553			2 393	918	1 475		56 538	
TOTAL-BELLOY	4 595			3 165	1 133	2 032		77 784	
BELLSHILL LAKE 041-13W4 BLAIRMORE ASSOC	135	0.70	0.20	76			38		228
BLAIRMORE SOLN	1 385	0.65	0.45	495			38		
BLAIRMORE ASSOC	5	0.70	0.20	3			38		29
BLAIRMORE ASSOC	11	0.70	0.20	6			38		34
BLAIRMORE ASSOC	7	0.70	0.20	4			38		30
BLAIRMORE ASSOC	72	0.70	0.20	40			38		139
BLAIRMORE TOTAL	1 615	0.65	0.40	624	172	452	38	17 004	
OTHER	739			460	116	344		12 003	
TOTAL-BELLSHILL LAKE	2 354			1 084	288	796		29 007	
BENJAMIN 028-07W5 RUNDLE A	1 809	0.65	0.15	1 000		1 000	39	38 940	1 003
RUNDLE B	1 865	0.65	0.15	1 030	333	697	39	27 141	881
RUNDLE C	1 684	0.65	0.15	931	162	769	38	29 153	440
TOTAL-BENJAMIN	5 358			2 961	495	2 466		95 234	
BENTLEY 058-07W4 TOTAL-BENTLEY	50			31		31		1 152	
BENTON 028-03W4 TOTAL-BENTON	756			519	97	422		15 752	
BERLAND RIVER 059-23W5 LEDUC A	3 852	0.90	0.25	2 600	1 157	1 443	38	54 444	280
TOTAL-BERLAND RIVER	3 852			2 600	1 157	1 443		54 444	
BERLAND RIVER WEST 058-25W5 WAB 10-058-25	663	0.80	0.25	398		398	38	14 925	440
WAB 26-058-25	422	0.80	0.05	321		321	39	12 410	200
OTHER	100			68		68		2 738	
TOTAL-BERLAND RIVER WEST	1 185			787		787		30 073	
BERRY 027-12W4 TOTAL-BERRY	2 782			1 949	513	1 436		53 676	
BERWYN (SA) 082-25W5 TOTAL-BERWYN	31			22		22		819	
BESSIE 062-15W5 TOTAL-BESSIE	37			25		25		982	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.74	0.210	0.60	5 550	33	0.904	0.60	766.1	1917	1982	PART OF VIK POOL NO.2 MATERIAL BALANCE ASSIGNED WELL 07-24-051-19W4M PART OF VIK POOL NO.2 MATERIAL BALANCE PART OF VIK POOL NO.2 MATERIAL BALANCE PART OF VIK POOL NO.2 MATERIAL BALANCE CWNGNUL TCPL PART OF VIK POOL NO.2
0.91	0.200	0.65	4 800	26	0.909	0.60	765.3	1952	1984	
2.09	0.210	0.60	5 550	33	0.904	0.60	788.3	1917	1989	
1.21	0.210	0.60	5 550	33	0.904	0.60	784.9	1953	1982	
								1917	1982	
2.21	0.270	0.45	4 070	22	0.919	0.58	504.6	1965	1983	PANALTA TCPL MATERIAL BALANCE PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE TRITON TCPL
2.12	0.300	0.65	3 450	22	0.932	0.59	528.2	1963	1982	
1.51	0.312	0.35	3 700	20	0.925	0.57	538.5	1969	1983	
2.12	0.300	0.55	3 860	27	0.928	0.57	550.2	1969	1982	
2.78	0.300	0.55	4 070	20	0.917	0.58	568.9	1969	1982	
								1963	1985	
3.09	0.277	0.65	3 130	19	0.939	0.56	518.4	1951	1988	TCPL A&S A&S MATERIAL BALANCE
7.41	0.188	0.65	14 400	60	0.822	0.66	1 447.8	1951	1981	
4.18	0.278	0.70	6 510	30	0.839	0.78	900.8	1956	1989	TCPL KANNGAZ
						0.78		1956	1989	
1.14	0.278	0.70	6 510	30	0.839	0.78	902.6	1956	1987	
2.32	0.278	0.70	6 510	30	0.839	0.78	899.8	1956	1987	
1.67	0.278	0.70	6 510	30	0.839	0.78	916.4	1956	1987	
3.66	0.278	0.70	6 510	30	0.839	0.78	939.7	1956	1987	
								1956	1987	
18.90	0.055	0.75	28 000	92	0.943	0.66	3 336.8	1969	1985	PROGAS PANALTA TOP/BASE TVD PROGAS PANALTA TOP/BASE TVD PROGAS PANALTA TOP/BASE TVD
23.40	0.053	0.75	27 400	92	0.938	0.66	3 266.5	1961	1984	
36.00	0.060	0.75	28 900	92	0.953	0.67	3 495.0	1978	1984	
65.60	0.072	0.90	36 450	121	1.015	0.68	3 762.9	1958	1986	TCPL MATERIAL BALANCE
21.87	0.036	0.80	33 090	127	0.984	0.72	3 724.0	1958	1973	TCPL BER TCPL BER
12.00	0.084	0.85	33 000	104	1.012	0.59	3 618.0	1980	1981	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BEZANSON (SA) 071-03W6 TOTAL-BEZANSON	265			184		184		7 264	
BIG ARROW 099-05W6 TOTAL-BIG ARROW	99			63		63		2 385	
BIG BEND 066-27W4 GRAND RAPIDS Q	601	0.90	0.05	514	498	16	38	603	437
MCMURRAY H	700	0.75	0.05	499	391	108	37	3 973	1 564
MCMURRAY B		0.65	0.05				38		1 271
MCMURRAY II		0.65	0.05				38		401
WABAMUN F		0.65	0.05				37		128
MCMURRAY B, II & WAB F TOTAL	585	0.65	0.05	361	305	56	38	2 103	
WABAMUN A	655	0.75	0.05	466	276	190	37	7 123	1 799
WABAMUN H	842	0.70	0.10	530	191	339	38	12 865	1 732
OTHER	9 539			6 002	2 781	3 221		120 916	
TOTAL-BIG BEND	12 922			8 372	4 442	3 930		147 583	
BIG COULEE 067-23W4 TOTAL-BIG COULEE	932			596	192	404		15 242	
BIGHORN 043-17W5 TOTAL-BIGHORN	639			425		425		16 537	
BIGORAY 051-08W5 GLAUCONITIC I	1 866	0.65	0.06	1 140	72	1 068	39	41 908	3 718
PEKISKO A SOLN	335	0.60	0.10	181 ^b			40		
PEKISKO A ASSOC	1 941	0.75	0.10	1 310 ^b	1 179 ^b	312	40	12 377	5 039
OTHER	4 722			2 534	330	2 204		86 776	
TOTAL-BIGORAY	8 864			5 165	1 581	3 584		141 061	
BIGSTONE 061-22W5 DUNVEGAN A	4 602	0.75	0.05	3 280	802	2 478	40	100 309	4 851
D-3 A	13 810	0.42	0.30	4 060	3 869	191	37	6 998	2 331
OTHER	1 081			677		677		25 707	
TOTAL-BIGSTONE	19 493			8 017	4 671	3 346		133 014	
BILAWCHUK 080-09W6 TOTAL-BILAWCHUK	451			320		320		12 376	
BILBO 065-08W6 FALHER B	513	0.90	0.15	393	32	361	40	14 288	250
OTHER	3 033			2 044	131	1 913		74 001	
TOTAL-BILBO	3 546			2 437	163	2 274		88 289	
BINDLOSS 022-05W4 MILK RIVER A	1 519	0.70	0.05	1 010			36		19 140
MEDICINE HAT A	549	0.70	0.03	372			36		22 725
MEDICINE HAT D	6	0.50	0.03	3			36		380
SE ALTA GAS SYS (MU) TOTAL	2 074	0.70	0.05	1 385	356	1 029	36	37 528	
VIKING A	10 774	0.90	0.01	9 600	7 974	1 626	36	59 186	18 120
BNFF 19-025-03	500	0.80	0.05	380		380	37	14 102	200
OTHER	655			455	143	312		11 008	
TOTAL-BINDLOSS	14 003			11 820	8 473	3 347		121 824	
BIRCH 050-11W4 UPPER MANNVILLE R	476	0.80	0.05	362	162	200	36	7 282	807
CAMROSE B	896	0.90	0.05	766	618	148	37	5 522	4 603
OTHER	2 542			1 696	550	1 146		42 615	
TOTAL-BIRCH	3 914			2 824	1 330	1 494		55 419	
BISON LAKE 095-15W5 TOTAL-BISON LAKE	315			199		199		7 321	
BISTCHO 122-04W6 TOTAL-BISTCHO	242			168		168		6 192	
BITTERN LAKE 046-22W4 GLAUCONITIC A	1 268	0.80	0.05	963	706	257	37	9 401	1 313
ELLERSLIE D	788	0.80	0.05	599	1	598	39	23 053	1 399
OTHER	3 059			1 949	465	1 484		55 640	
TOTAL-BITTERN LAKE	5 115			3 511	1 172	2 339		88 094	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
4.70 3.05 3.10 1.74 6.10 6.31 7.62	0.250 0.210 0.193 0.206 0.190 0.154 0.164	0.60 0.65 0.60 0.70 0.70 0.75 0.85	4 620 4 680 5 000 5 000 4 710 4 990 4 520	21 30 30 29 36 37 32	0.910 0.911 0.907 0.905 0.913 0.916 0.921	0.56 0.63 0.60 0.60 0.63 0.60 0.59	600.6 795.4 800.5 799.8 802.9 816.1 755.1	1967 1967 1968 1968 1976 1968 1976	1981 1987 1987 1989 1983 1983 1988 1988	TCPL PRODUCTION DECLINE TCPL MATERIAL BALANCE PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE TCPL TCPL TCPL
5.26 5.27	0.123 0.072	0.55 0.65	13 510 15 370	58 63	0.823 0.833	0.66 0.67 0.67	1 827.1 1 886.7	1958 1962 1962	1989 1989 1989	DEVNIC A&S PART OF GLAUC POOL NO.5 A&S CONCURRENT PRODUCTION A&S CONCURRENT PRODUCTION
5.51 17.47	0.154 0.080	0.55 0.85	17 930 32 650	60 116	0.802 0.972	0.68 0.71	1 973.7 3 382.5	1959 1960	1986 1986	PROGAS AMOCO A&S PSR A&S PRODUCTION DECLINE GAS CYCLING SCHEME
7.60	0.120	0.85	35 760	103	1.022	0.64	2 552.0	1982	1989	PANALTA CDNHUNT DEEP CUT SL
3.13 0.56 0.40 3.43 22.50	0.154 0.170 0.139 0.294 0.169	0.55 0.55 0.60 0.55 0.65	3 140 4 310 4 450 6 830 9 460	16 17 19 27 35	0.937 0.916 0.916 0.881 0.863	0.56 0.56 0.56 0.59 0.57	355.7 487.7 487.7 685.5 987.8	1910 1904 1973 1952 1987	1987 1987 1987 1984 1988	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE PART OF MED HAT POOL NO.1 PART OF MED HAT POOL NO.4 PANALTA TCPL TCPL MATERIAL BALANCE PROGAS
5.22 3.06	0.289 0.101	0.75 0.65	5 040 4 760	28 27	0.914 0.914	0.58 0.57	656.5 713.5	1978 1961	1984 1987	TCPL TCPL MATERIAL BALANCE
8.82 4.31	0.204 0.185	0.85 0.80	9 130 8 730	38 50	0.858 0.870	0.63 0.66	1 222.8 1 220.8	1956 1975	1989 1989	CWNGNUL PRODUCTION DECLINE CWNGNUL ICG

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BLACK 110-09W6 TOTAL-BLACK	1 296			893		893		33 807	
BLACK BUTTE 001-08W4									
BASAL COLORADO A	322	0.80	0.05	245			37		1 016
BASAL COLORADO B	300	0.85	0.05	242			37		838
BASAL COLORADO A&B TOTAL	622	0.80	0.05	487	387	100	37	3 714	
SUNBURST-SWIFT A	469	0.80	0.04	360	355	5	38	190	824
SAWTOOTH A	900	0.82	0.05	701	626	75	37	2 801	1 660
RUNDLE A	1 105	0.80	0.10	796	435	361	37	13 440	1 230
OTHER	617			425	214	211		7 839	
TOTAL-BLACK BUTTE	3 713			2 769	2 017	752		27 984	
BLACK DIAMOND 020-02W5 TOTAL-BLACK DIAMOND	300			41	41				
BLACKFOOT 022-23W4 TOTAL-BLACKFOOT	633			424	154	270		9 816	
BLACKSTONE 045-16W5									
CARD SD 26-044-16	435	0.85	0.05	352		352	39	13 584	200
BEAVERHILL LAKE A	22 500	0.80	0.25	13 500	1 771	11 729	37	436 788	3 454
OTHER	395			261		261		10 759	
TOTAL-BLACKSTONE	23 330			14 113	1 771	12 342		461 131	
BLANSKY (SA) 001-02W4 TOTAL-BLANSKY	64			48		48		1 749	
BLOOD 006-22W4									
BOW ISLAND A	1 020	0.80	0.05	775	276	499	36	18 189	2 056
OTHER	52			29	9	20		730	
TOTAL-BLOOD	1 072			804	285	519		18 919	
BLOOR 033-12W4 TOTAL-BLOOR	232			153	26	127		4 821	
BLUEBERRY 082-07W6									
BELL 16-082-07	451	0.90	0.10	365		365	39	14 122	200
KISKATINAW A	1 139	0.80	0.05	865	512	353	38	13 432	200
OTHER	227			152		152		5 849	
TOTAL-BLUEBERRY	1 817			1 382	512	870		33 403	
BLUERIDGE 059-10W5									
JURASSIC B	2 632	0.76	0.10	1 800	1 241	559	40	22 081	3 943
JURASSIC F	748	0.60	0.10	404	276	128	39	4 966	400
PEKISKD A SOLN	79	0.60	0.10	42 ^b			38		
PEKISKD A ASSOC	1 139	0.90	0.10	923 ^b	473 ^b	492	38	18 883	1 637
OTHER	1 303			847	38	809		31 262	
TOTAL-BLUERIDGE	5 901			4 016	2 028	1 988		77 192	
BOGGY LAKE (SA) 030-06W5 TOTAL-BOGGY LAKE	53			36		36		1 377	
BOHN (SA) 081-07W4 TOTAL-BOHN	100			49		49		1 820	
BOLLOQUE 064-26W4									
LOWER MANNVILLE A	894	0.70	0.05	595	549	46	38	1 742	2 631
LOWER MANNVILLE B	558	0.80	0.05	424	120	304	38	11 458	1 161
OTHER	2 121			1 330	167	1 163		43 136	
TOTAL-BOLLOQUE	3 573			2 349	836	1 513		56 336	
BOLTAN (SA) 060-02W6 TOTAL-BOLTAN	184			126		126		5 078	
BONANZA 081-12W6									
HALFWAY A	447	0.85	0.15	323	15	308	39	11 883	1 222
OTHER	1 336			623	21	602		22 508	
TOTAL-BONANZA	1 783			946	36	910		34 391	
BONDISS 064-15W4 TOTAL-BONDISS	288			182	65	117		4 361	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
4.00 3.18	0.195 0.231	0.55 0.60	6 300 6 430	24 24	0.885 0.882	0.58 0.57	771.6 788.9	1944 1944	1987 1987	PRODUCTION DECLINE PRODUCTION DECLINE
5.77 2.58 5.98	0.200 0.200 0.100	0.70 0.70 0.80	7 100 8 100 8 260	30 33 33	0.848 0.871 0.867	0.65 0.60 0.62	900.8 990.8 997.0	1944 1944 1944	1987 1984 1981 1979	CMG CMG PRODUCTION DECLINE CMG PRODUCTION DECLINE CMG MATERIAL BALANCE
16.50 23.51	0.123 0.109	0.55 0.90	21 740 45 200	81 140	0.896 1.102	0.63 0.72	2 777.8 4 736.0	1979 1979	1980 1989	TCPL CNG
10.33	0.157	0.75	3 400	32	0.937	0.63	1 018.4	1978	1989	PANALTA MATERIAL BALANCE
10.49 9.87	0.200 0.130	0.75 0.70	14 480 15 380	63 64	0.855 0.846	0.61 0.65	1 444.4 1 581.9	1973 1973	1977 1989	TCPL BER TCPL MATERIAL BALANCE
4.11 9.75 6.79	0.190 0.179 0.127	0.65 0.55 0.65	12 450 10 490 12 550	65 66 64	0.853 0.867 0.853	0.65 0.65 0.65	1 719.7 1 646.0 1 731.4	1967 1970 1968	1989 1985 1988 1988	TCPL PRODUCTION DECLINE TCPL MATERIAL BALANCE TCPL CONCURRENT PRODUCTION, OIL DEPLETED TCPL CONCURRENT PRODUCTION, OIL DEPLETED
3.20 3.77	0.228 0.289	0.65 0.80	5 450 5 380	29 33	0.900 0.907	0.58 0.58	868.6 863.9	1965 1973	1983 1980	TCPL MATERIAL BALANCE
2.45	0.122	0.75	14 520	60	0.760	0.83	1 482.7	1973	1984	PANALTA

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BONNIE GLEN 047-27W4 GLAUCONITIC A	1 667	0.70	0.10	1 050	403	647	39	25 459	3 213
D-3 A SOLN	17 625	0.80	0.35	9 165b			41		
D-3 A ASSOC	14 103	0.90	0.25	9 520b	6 123b	12 562	41	513 283	1 299
OTHER	1 402			940	362	578		22 862	
TOTAL-BONNIE GLEN	34 797			20 675	6 888	13 787		561 604	
BONNYVILLE 060-05W4 TOTAL-BONNYVILLE	960			628	476	152		5 657	
BORDER 042-05W4 TOTAL-BORDER	65			40		40		1 421	
BORRADAILE 051-05W4 TOTAL-BORRADAILE	67			44		44		1 613	
BOTHA 098-05W6 DEBOLT A	446	0.85	0.05	360		360	37	13 176	3 771
OTHER	207			135		135		5 005	
TOTAL-BOTHA	653			495		495		18 181	
BOTTREL 028-05W5 TOTAL-BOTTREL	376			263	1	262		10 757	
BOUCHER 079-04W6 TOTAL-BOUCHER	159			108		108		4 130	
BOUNDARY LAKE SOUTH 084-12W6 TRIASSIC E ASSOC	123	0.80	0.10	88			40		481
TRIASSIC E SOLN	1 289	0.45	0.10	522			40		
TRIASSIC E ASSOC	80	0.80	0.10	58			40		191
TRIASSIC E TOTAL	1 492	0.50	0.10	668		668	40	26 874	
TRIASSIC G	950	0.80	0.10	684	568	116	40	4 584	3 282
KISKATINAW E	1 020	0.85	0.05	824	820	4	38	153	896
GOLATA B	1 169	0.95	0.10	1 000	828	172	39	6 667	400
KISKATINAW B	107	0.75	0.05	76			38		200
GOLATA A	455	0.85	0.05	368			38		440
KISKAT B & GOLATA A TOTAL	562	0.85	0.05	444	393	51	38	1 930	
OTHER	1 839			1 089	178	911		35 692	
TOTAL-BOUNDARY LAKE SOUTH	7 032			4 709	2 787	1 922		75 900	
BOUVIER 070-24W4 WABAMUN C	516	0.65	0.05	318	53	265	37	9 919	1 056
OTHER	430			260	94	166		6 236	
TOTAL-BOUVIER	946			578	147	431		16 155	
BOW ISLAND 011-11W4 MILK RIVER A	101	0.70	0.05	67			36		2 112
MEDICINE HAT C	24	0.50	0.03	12			36		935
SECOND WHITE SPECKS A	1 165	0.75	0.05	830			36		17 119
SECOND WHITE SPECKS C	9	0.80	0.05	7			36		200
SE ALTA GAS SYS (MU) TOTAL	1 299	0.75	0.05	916	3	913	36	33 297	
BOW ISLAND	2 667	0.75	0.05	1 900	1 697	203	38	7 651	38 702
OTHER	752			549	28	524		18 819	
TOTAL-BOW ISLAND	4 718			3 365	1 725	1 640		59 767	
BOWDEN (SA) 033-29W4 TOTAL-BOWDEN	51			30		30		1 183	
BOYER 103-22W5 BLUESKY A	18 422	0.60	0.05	10 500			37		130 779
BLUESKY A	739	0.60	0.05	421			37		11 534
BLUESKY A	147	0.60	0.05	84			37		4 410
BLUESKY A	34	0.60	0.05	19			37		1 114
BLUESKY A	27	0.65	0.05	17			37		200
BLUESKY A	18	0.65	0.05	11			37		200

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
6.36	0.136	0.50	11 940	64	0.840	0.67	1 556.8	1954	1989	PROGAS PANALTA ESSO DIRECT POCO METHON SOQUIP KANNGAZ PART OF GLAUC POOL NO.3 ESSO VECTOR SOQUIP CONC PROD, GAS CYCLING, DP CT SL ESSO VECTOR SOQUIP CONC PROD, GAS CYCLING, DP CT SL
						0.79		1951	1988	
66.06	0.104	0.94	16 820	80	0.806	0.79	2 042.2	1951	1988	
3.23	0.174	0.40	5 220	35	0.916	0.58	767.5	1975	1982	NONCOMMERCIAL OIL
1.30	0.158	0.90	12 550	49	0.802	0.65	1 321.8	1964	1989	WCST ESSO PANALTA ESSO ESSO MATERIAL BALANCE ESSO PRODUCTION DECLINE ESSO
1.40	0.228	0.95	12 550	49	0.802	0.65	1 309.3	1964	1988	
2.73	0.125	0.75	11 140	60	0.841	0.65	1 308.1	1967	1982	
5.07	0.143	0.80	16 060	77	0.885	0.59	1 894.5	1964	1976	
6.17	0.144	0.80	16 340	63	0.831	0.66	1 858.1	1964	1989	
2.44	0.170	0.80	16 230	60	0.861	0.59	1 845.0	1958	1980	
5.79	0.140	0.80	16 350	63	0.868	0.59	1 859.3	1958	1980	
								1958	1980	
9.04	0.200	0.75	3 590	30	0.935	0.58	650.4	1977	1982	
1.88	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	
0.65	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
0.88	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	PART OF MED HAT POOL NO.3
1.00	0.120	0.65	5 270	20	0.901	0.58	612.5	1980	1988	PART OF 2WS POOL NO.1
1.19	0.182	0.55	5 330	27	0.893	0.61	646.3	1910	1988	PROGAS TCPL
								1909	1987	PROGAS CWNGNUL ATCOR TCPL PRODUCTION DECLINE
6.40	0.210	0.40	2 550	19	0.948	0.57	335.3	1973	1985	PART OF BLSKY POOL NO.1
2.91	0.210	0.40	2 550	19	0.948	0.57	335.3	1973	1988	PART OF BLSKY POOL NO.1
1.51	0.210	0.40	2 550	19	0.948	0.57	335.3	1973	1985	PART OF BLSKY POOL NO.1
1.38	0.210	0.40	2 550	19	0.948	0.57	335.3	1973	1985	PART OF BLSKY POOL NO.1
6.20	0.207	0.40	2 560	21	0.949	0.57	389.3	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-29-100-23W5M
3.40	0.190	0.50	2 700	21	0.946	0.57	379.0	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-31-101-24W5M

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BOYER 103-22W5 (CONTINUED)									
BLUESKY A	11	0.65	0.05	7			37		200
BLUESKY A	11	0.65	0.05	7			37		200
BLUESKY A	8	0.60	0.05	5			37		200
BLUESKY A	15	0.65	0.05	10			37		200
BLUESKY A	7	0.65	0.05	5			37		200
BLUESKY A	16	0.65	0.05	10			37		200
BLUESKY A	15	0.65	0.05	10			37		200
BLUESKY A	37	0.60	0.05	21			37		200
BLUESKY A	40	0.65	0.05	25			37		200
BLUESKY A	36	0.60	0.05	21			37		200
BLUESKY A	43	0.60	0.05	25			37		200
BLUESKY A	34	0.65	0.05	21			37		200
BLUESKY A	23	0.65	0.05	14			37		200
GETHING A	213	0.70	0.05	142			38		3 644
BLUESKY A & GETHING A TOTAL	19 896	0.60	0.05	11 375	2 785	8 590	37	319 806	
OTHER	381			229	116	113		4 171	
TOTAL-BOYER	20 277			11 604	2 901	8 703		323 977	
BRAEBURN 077-10W6									
BALDONNEL A	606	0.80	0.10	437	406	31	38	1 186	2 074
OTHER	943			358	104	254		9 844	
TOTAL-BRAEBURN	1 549			795	510	285		11 030	
BRANCH (SA) 002-20W4									
TOTAL-BRANCH	7			4		4		131	
BRANT 018-25W4									
TOTAL-BRANT	329			158	56	102		3 687	
BRAZEAU RIVER 045-13W5									
CARDIUM C SOLN	733	0.65	0.25	357	179	178	41	7 343	
LOWER MANNVILLE E	837	0.85	0.15	604			42		1 080
LOWER MANNVILLE G	176	0.80	0.15	120			42		150
L MANNVILLE E & G TOTAL	1 013	0.85	0.15	724	17	707	42	29 864	
ROCK CREEK D	995	0.90	0.25	672	178	494	41	20 234	1 152
NORD 07-047-12	558	0.85	0.10	427		427	39	16 854	256
ELKTON-SHUNDA A		0.75	0.10				39		5 883
ELKTON-SHUNDA A		0.75	0.10				39		9 428
ELKTON-SHUNDA A TOTAL	13 037	0.75	0.10	8 800	6 072	2 728	39	106 283	
ELKTON-SHUNDA B		0.85	0.10				39		26 045
ELKTON-SHUNDA B		0.85	0.10				39		42 772
ELKTON-SHUNDA B		0.85	0.10				39		200
ELKTON-SHUNDA B		0.85	0.10				39		11 056
ELKTON-SHUNDA B		0.85	0.10				39		26 958
ELKTON-SHUNDA B TOTAL	36 601	0.85	0.10	28 000	19 873	8 127	39	316 140	
NISKU A SOLN	943	0.75	0.35	460b			41		
NISKU A ASSOC		0.85	0.10		-617b	1 077	41	44 114	
NISKU E SOLN	814	0.65	0.35	344b			41		
NISKU E ASSOC		0.85	0.10		-140b	484	41	20 033	
NISKU F	992	0.80	0.30	556	29	527	42	22 097	104
NISKU J	707	c	c	481	23	458	41	18 783	96
NISKU K	812	c	c	429	134	295	41	12 098	255
NISKU M	1 489	c	c	823	89	734	41	30 358	150
NISKU P	9 408	c	c	3 730	108	3 622	40	144 880	3 761
NISKU S	1 665	c	c	756	194	562	41	23 211	251
NIS 36-047-15	976	0.90	0.30	615		615	41	25 147	200
OTHER	10 927			6 377	629	5 748		230 089	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.00	0.160	0.40	2 750	22	0.946	0.57	429.6	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-24-101-01W6M
2.44	0.210	0.40	2 550	19	0.948	0.57	338.1	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-16-102-23W5M
1.80	0.210	0.40	2 550	19	0.948	0.57	227.1	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL Q2/7-11-104-21W5M
3.35	0.210	0.40	2 550	16	0.946	0.57	228.2	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-07-105-20W5M
1.52	0.210	0.40	2 550	16	0.946	0.57	233.1	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-10-105-21W5M
3.96	0.210	0.40	2 300	16	0.951	0.57	231.9	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-21-105-21W5M
3.70	0.180	0.50	2 230	16	0.953	0.57	229.1	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-22-105-21W5M
8.20	0.210	0.40	2 600	16	0.945	0.57	266.9	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-09-106-23W5M
9.90	0.200	0.40	2 420	16	0.949	0.57	266.4	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-28-106-23W5M
8.90	0.192	0.40	2 550	16	0.946	0.57	273.3	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 06-13-106-24W5M
9.00	0.230	0.40	2 500	16	0.947	0.57	298.5	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-28-106-01W6M
5.86	0.210	0.50	2 640	14	0.943	0.57	220.7	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 02-06-106-20W5M
4.01	0.210	0.50	2 640	14	0.943	0.57	217.9	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-21-106-20W5M
1.90	0.230	0.50	2 620	21	0.947	0.57	386.3	1976	1980	PART OF BLSKY POOL NO.1
								1973	1985	PANALTA TCPL A&S PART OF BLSKY POOL NO.1
2.45	0.121	0.70	14 820	70	0.873	0.63	1 726.1	1954	1988	
2.10	0.156	0.90	32 610	97	0.954	0.71		1973	1987	ESSO TCPL PCI DEEP CUT SL
1.80	0.250	0.90	34 080	79	0.953	0.78	2 927.0	1975	1978	
						0.84	2 963.6	1975	1988	
4.21	0.132	0.60	30 900	93	0.927	0.85	3 116.9	1973	1989	ESSO TCPL
28.60	0.050	0.90	20 630	113	0.898	0.73	2 742.0	1979	1982	CWNGNUL PCI DEEP CUT SL
5.59	0.114	0.85	26 580	99	0.939	0.68	2 944.3	1965	1985	MATERIAL BALANCE
3.85	0.070	0.85	26 580	99	0.942	0.66	2 925.5	1965	1986	MATERIAL BALANCE
								1965	1984	PROGAS A&S TCPL
3.91	0.099	0.80	26 800	95	0.940	0.67	3 023.9	1959	1985	MATERIAL BALANCE
2.72	0.079	0.75	26 800	95	0.937	0.68	2 947.0	1959	1989	MATERIAL BALANCE
1.51	0.079	0.75	26 800	95	0.937	0.69	3 048.9	1959	1989	MATERIAL BALANCE ASSIGNED WELL 06-03-045-13W5M
0.63	0.051	0.60	26 800	95	0.938	0.67	2 830.0	1959	1985	MATERIAL BALANCE
1.46	0.076	0.75	26 800	95	0.938	0.67	2 890.0	1959	1985	MATERIAL BALANCE
						0.75		1959	1985	PROGAS ESSO TCPL A&S
						0.75		1977	1988	LEAN GAS BREAKTHROUGH
						0.75		1977	1988	LEAN GAS BREAKTHROUGH
						0.75		1978	1988	LEAN GAS BREAKTHROUGH
						0.75		1978	1988	LEAN GAS BREAKTHROUGH
28.61	0.096	0.90	46 300	107	1.203	1.19	3 355.1	1978	1988	ESSO TCPL MATERIAL BALANCE GAS CYCLING SCHEME
21.80	0.138	0.90	38 390	108	1.053	1.21	3 361.4	1979	1984	TCPL GAS CYCLING SCHEME
26.07	0.054	0.80	70 730	117	1.678	0.70	3 844.4	1978	1986	TCPL GAS CYCLING SCHEME
29.76	0.100	0.85	50 590	104	1.259	0.79	3 271.8	1979	1987	TCPL GAS CYCLING SCHEME
16.23	0.056	0.85	35 780	99	0.935	1.20	3 137.3	1977	1987	ESSO TCPL A&S GAS CYCLING SCHEME
24.30	0.102	0.90	37 880	110	1.035	1.08	3 752.6	1979	1989	TCPL GAS CYCLING SCHEME
24.80	0.070	0.85	54 510	114	1.211	0.92	3 669.7	1980	1989	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BRAZEAU RIVER 045-13W5 (CONTINUED) TOTAL-BRAZEAU RIVER	81 670			53 551	26 768	26 783		1 067 528	
BREMNER 078-04W6 TOTAL-BREMNER	31			22		22		824	
BRIDGE 057-07W5 TOTAL-BRIDGE	196			132	45	87		3 424	
BRIGHT 051-02W5 TOTAL-BRIGHT	203			143		143		5 672	
BRIKER 046-03W4 TOTAL-BRIKER	86			61		61		2 164	
BRINTNELL (SA) 081-23W4 TOTAL-BRINTNELL	41			24		24		885	
BRITTS (SA) 096-17W5 TOTAL-BRITTS	24			14		14		522	
BRONSON 057-17W5 TOTAL-BRONSON	561			383		383		14 912	
BROOKS 018-14W4 MILK RIVER A	444	0.70	0.05	295			37		3 498
MEDICINE HAT A	64	0.70	0.03	44			36		2 313
MEDICINE HAT C	54	0.50	0.03	26			36		1 487
MEDICINE HAT D	8	0.50	0.03	4			36		344
SE ALTA GAS SYS (MU) TOTAL	570	0.70	0.05	369	248	121	37	4 467	
TOTAL-BROOKS	570			369	248	121		4 467	
BROWN CREEK (SA) 044-17W5 TV 044-17	423	0.85	0.05	342		342	38	13 006	890
OTHER	181			122		122		4 762	
TOTAL-BROWN CREEK	604			464		464		17 768	
BROWVALE 081-26W5 TOTAL-BROWVALE	142			87		87		3 221	
BROXBURN 009-21W4 TOTAL-BROXBURN	50			29	26	3		103	
BRUCE 047-16W4 BELLY RIVER J	510	0.75	0.05	364	342	22	37	813	3 392
UPPER VIKING A		0.75	0.03				36		83 844
MIDDLE VIKING A		0.75	0.03				37		
MIDDLE VIKING B	385	0.55	0.03	206			36		15 454
UPPER VIKING F		0.60	0.05				38		200
UPPER MANNVILLE Z	337	0.65	0.05	208			38		670
U VIK A&F & M VIK A&B TOTAL	5 375	0.75	0.05	3 910	2 591	1 319	37	48 856	
UPPER MANNVILLE ZZZ	455	0.70	0.05	303	219	84	37	3 075	490
UPPER MANNVILLE A2A	523	0.65	0.05	323	267	56	38	2 104	656
OTHER	10 948			7 061	2 597	4 464		165 661	
TOTAL-BRUCE	17 811			11 961	6 016	5 945		220 509	
BUFF COULEE 046-07W4 COLONY A	523	0.85	0.05	423	217	206	37	7 546	3 546
COLONY C	612	0.70	0.05	407	263	144	36	5 219	150
OTHER	518			368	146	222		8 077	
TOTAL-BUFF COULEE	1 653			1 198	626	572		20 842	
BUFFALO LAKE 039-21W4 TOTAL-BUFFALO LAKE	455			197	51	146		5 751	
BUICK 090-02W6 TOTAL-BUICK	76			50		50		1 846	
BURDETT 009-10W4 TOTAL-BURDETT	175			124		124		4 589	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
5.01	0.154	0.55	3 140	16	0.935	0.57	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
0.64	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1989	PART OF MED HAT POOL NO.1
0.92	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.3
0.59	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.4
								1904	1987	PANALTA CWNGNUL TCPL
4.15	0.057	0.85	30 800	101	0.990	0.61	3 364.5	1960	1989	BER
3.14	0.284	0.60	2 740	20	0.947	0.56	371.6	1970	1988	TCPL A&S KANNGAZ PART OF BR POOL NO.2
1.19	0.180	0.70	5 650	26	0.895	0.61	714.5	1917	1989	PART OF VIK POOL NO.2 MATERIAL BALANCE
	0.180	0.70	5 650	26	0.895	0.59	789.4	1917	1985	PART OF VIK POOL NO.2 MATERIAL BALANCE
1.15	0.212	0.40	5 650	27	0.898	0.60	745.4	1952	1985	PART OF VIK POOL NO.2 PRODUCTION DECLINE
1.24	0.230	0.55	3 960	25	0.921	0.59	735.5	1976	1976	PART OF VIK POOL NO.2 MATERIAL BALANCE
2.43	0.255	0.75	6 070	27	0.887	0.59	873.4	1975	1988	PART OF VIK POOL NO.2 PRODUCTION DECLINE
								1917	1988	PROGAS PANALTA CWNGNUL RENENER TCPL A&S
1.44	0.241	0.65	6 170	29	0.891	0.60	884.4	1977	1986	KANNGAZ PART OF VIK POOL NO.2
3.54	0.231	0.80	6 140	28	0.889	0.58	871.5	1976	1987	TCPL MATERIAL BALANCE
										TCPL PRODUCTION DECLINE
2.12	0.285	0.60	3 980	27	0.927	0.59	596.4	1976	1987	PANALTA CWNGNUL
11.58	0.280	0.90	4 250	21	0.920	0.58	593.7	1977	1989	CWNGNUL MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
BURNT TIMBER 031-09W5									
RUNDLE A	20 781	0.80	0.20	13 300			39		4 449
RUNDLE B	2 484	0.80	0.20	1 590			39		2 204
RUNDLE A & B TOTAL	23 265	0.80	0.20	14 890	9 195	5 695	39	221 706	
WABAMUN A	4 720	0.75	0.50	1 770	888	882	38	33 507	2 992
TOTAL-BURNT TIMBER	27 985			16 660	10 083	6 577		255 213	
BYEMOOR 034-19W4									
TOTAL-BYEMOOR	190			122	3	119		4 358	
CACHE 058-12W4									
VIKING A	2 355	0.40	0.05	895	27	868	37	32 194	34 666
COLONY D	526	0.80	0.05	400	160	240	38	9 012	2 132
COLONY G	471	0.80	0.05	358	262	96	37	3 597	593
COLONY P	410	0.80	0.05	312	96	216	37	8 003	1 081
COLONY B		0.75	0.05				35		1 530
COLONY C		0.75	0.05				35		1 221
COLONY S		0.75	0.05				38		200
COLONY B,C & S TOTAL	541	0.75	0.05	386	313	73	36	2 619	
COLONY BB	71	0.65	0.05	44			38		745
COLONY EE	112	0.70	0.05	74			38		1 262
COLONY HH	330	0.80	0.05	251			38		2 608
COLONY BB, EE & HH TOTAL	513	0.75	0.05	369	237	132	38	4 999	
COLONY DD		0.75	0.05				37		880
COLONY FF		0.75	0.05				38		750
COLONY DD & FF TOTAL	486	0.75	0.05	346	268	78	38	2 932	
COLONY E	328	0.75	0.05	234			38		2 744
COLONY RR	9	0.70	0.05	6			38		150
COLONY F	103	0.70	0.05	68			37		903
COLONY E,F & RR TOTAL	440	0.75	0.05	308	132	176	38	6 602	
CLEARWATER B	1 247	0.70	0.05	829	780	49	37	1 818	3 843
OTHER	4 751			3 147	1 679	1 468		54 830	
TOTAL-CACHE	11 740			7 350	3 954	3 396		126 606	
CADOTTE 086-19W5									
TOTAL-CADOTTE	488			336	168	168		6 183	
CALAIS 070-25W5									
TOTAL-CALAIS	411			259	44	215		7 865	
CALLING LAKE 071-18W4									
D-2 B	2 372	0.75	0.05	1 690	1 647	43	37	1 587	7 421
D-2 C	610	0.80	0.05	464	46	418	37	15 395	3 867
OTHER	697			448	87	361		13 423	
TOTAL-CALLING LAKE	3 679			2 602	1 780	822		30 405	
CALLING LAKE SOUTH 070-22W4									
TOTAL-CALLING LAKE SOUTH	565			350	61	289		10 720	
CALLING LAKE WEST 071-20W4									
UPPER MANNVILLE A	538	0.70	0.05	358	179	179	38	6 721	3 361
OTHER	860			541	132	409		15 142	
TOTAL-CALLING LAKE WEST	1 398			899	311	588		21 863	
CAMPBELL-NAMAO 054-25W4									
NAMAO BLAIRMORE E SOLN	121	0.65	0.10	71b			38		
NAMAO BLAIRMORE E ASSOC	848	0.90	0.10	687b	489b	269	38	10 335	704
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				38		161
CAMPBELL BLAIRMORE A SOLN	117	0.65	0.10	68b			38		
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				38		335
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				39		49
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				39		207
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				39		80
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				36		50
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				36		79
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				38		36
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				38		34
CAMPBELL BLAIRMORE A ASSOC		0.80	0.10				36		52
CAMPBELL BLAIRMORE A TOTAL	1 312	0.80	0.10	928b	711b	217	38	8 229	
BLAIRMORE J ASSOC		0.65	0.10				38		383
BLAIRMORE J SOLN	48	0.65	0.25	23b			38		
BLAIRMORE J ASSOC		0.65	0.10				38		64

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
31.61	0.073	0.88	26 610	94	0.916	0.71	3 229.6	1959	1988	TOP/BASE TVD
9.27	0.069	0.80	25 860	100	0.895	0.75	3 339.5	1959	1988	TOP/BASE TVD
13.39	0.055	0.80	31 720	116	0.867	0.88	3 748.7	1959	1988	TCPL
								1976	1989	TCPL MATERIAL BALANCE TOP/BASE TVD
1.04	0.283	0.55	4 000	21	0.922	0.57	434.3	1949	1988	PANALTA MIP TCPL PART OF VIK POOL NO.6
5.12	0.230	0.55	3 650	21	0.927	0.57	477.6	1952	1977	PANALTA CWNGNUL MIP TCPL SLUSH OIL
2.99	0.246	0.60	3 390	22	0.934	0.57	491.9	1965	1985	MIP TCPL MATERIAL BALANCE
4.86	0.283	0.75	3 520	19	0.932	0.56	498.3	1977	1981	PANALTA MIP TCPL
1.30	0.277	0.70	3 790	19	0.928	0.59	484.0	1971	1989	MATERIAL BALANCE
1.62	0.290	0.65	3 850	21	0.929	0.59	488.5	1971	1989	MATERIAL BALANCE
1.82	0.250	0.60	3 910	18	0.921	0.56	489.8	1971	1989	MATERIAL BALANCE
								1971	1989	PANALTA MIP TCPL
1.46	0.272	0.70	3 320	21	0.934	0.57	480.4	1977	1981	
1.33	0.270	0.60	3 920	21	0.920	0.58	485.4	1973	1982	
1.66	0.294	0.65	3 800	21	0.922	0.58	481.4	1971	1981	
								1971	1982	PANALTA MIP TCPL
1.33	0.290	0.60	4 220	21	0.918	0.57	483.0	1958	1985	MATERIAL BALANCE
1.42	0.278	0.70	4 270	21	0.913	0.58	476.9	1958	1981	MATERIAL BALANCE
								1958	1982	MIP
1.54	0.304	0.70	3 510	21	0.931	0.57	492.6	1973	1986	
1.50	0.230	0.50	3 370	27	0.938	0.57	509.6	1978	1986	
1.75	0.272	0.65	3 570	22	0.932	0.56	480.6	1973	1986	
								1973	1986	PANALTA MIP
2.33	0.313	0.65	3 850	21	0.927	0.56	573.1	1973	1986	PANALTA MIP TCPL PRODUCTION DECLINE
9.40	0.055	0.55	2 450	19	0.951	0.57	464.0	1964	1986	MATERIAL BALANCE
7.77	0.120	0.65	2 520	17	0.949	0.57	473.2	1978	1986	PANALTA BVI KANNGAZ TCPL
3.20	0.317	0.55	2 790	20	0.944	0.57	424.8	1970	1977	PANALTA
9.11	0.192	0.80	8 380	46	0.868	0.65	1 105.6	1951	1982	TCPL GPP
1.67	0.150	0.50	8 200	38	0.844	0.66	1 116.7	1951	1982	TCPL GPP
								1949	1985	PRODUCTION DECLINE CONCURRENT PRODUCTION
1.65	0.150	0.50	8 200	38	0.844	0.66	1 119.7	1949	1985	PRODUCTION DECLINE CONCURRENT PRODUCTION
2.86	0.200	0.50	8 020	36	0.816	0.70	1 128.2	1949	1986	PRODUCTION DECLINE
3.41	0.200	0.50	7 350	36	0.829	0.70	1 128.6	1949	1986	PRODUCTION DECLINE
2.06	0.210	0.60	8 020	36	0.816	0.70	1 125.4	1949	1986	PRODUCTION DECLINE
1.46	0.200	0.50	7 060	36	0.867	0.67	1 131.9	1949	1986	PRODUCTION DECLINE
1.09	0.200	0.50	8 370	37	0.849	0.67	1 132.4	1949	1986	PRODUCTION DECLINE
1.81	0.190	0.50	8 370	37	0.840	0.66	1 137.0	1949	1986	PRODUCTION DECLINE
1.76	0.190	0.50	8 370	37	0.840	0.66	1 137.1	1949	1986	PRODUCTION DECLINE
2.29	0.200	0.50	8 370	37	0.849	0.67	1 131.2	1949	1988	PRODUCTION DECLINE
								1949	1986	DEVNIC TCPL CONCURRENT PRODUCTION
5.50	0.226	0.75	7 950	36	0.865	0.64	1 138.1	1976	1988	PRODUCTION DECLINE CONCURRENT PRODUCTION
						0.64		1976	1988	PRODUCTION DECLINE CONCURRENT PRODUCTION
4.00	0.220	0.70	7 970	36	0.865	0.64	1 137.7	1976	1988	PRODUCTION DECLINE ASSIGNED WELL
										05-12-054-25W4M

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CAMPBELL-NAMAO 054-25W4 (CONTINUED)									
BLAIRMORE J TOTAL	908	0.65	0.10	526 ^b	285 ^b	241	38	9 163	
OTHER	1 033			641	204	437		16 655	
TOTAL-CAMPBELL-NAMAO	4 222			2 853	1 689	1 164		44 382	
CANAL 070-23W4									
WABAMUN B	511	0.85	0.05	412	30	382	37	14 111	1 896
OTHER	137			88		88		3 285	
TOTAL-CANAL	648			500	30	470		17 396	
CANARD 057-09W4									
TOTAL-CANARD	1 928			1 174	441	733		27 268	
CAPRON 026-02W4									
TOTAL-CAPRON	132			93	8	85		3 169	
CARBON 029-22W4									
VIKING D	2 021	0.77	0.10	1 400	1 268	132	39	5 203	7 108
GLAUCONITIC		0.80	0.01				39		5 180
GLAUCONITIC		0.80	0.01				39		5 031
GLAUCONITIC TOTAL	5 101	0.80	0.05	4 040	1 606	2 434	39	94 756	
OTHER	1 743			1 086	492	594		22 713	
TOTAL-CARBON	8 865			6 526	3 366	3 160		122 672	
CARDIFF 054-02W5									
ELLERSLIE A	700	0.90	0.10	567	504	63	39	2 472	1 232
OTHER	421			284	1	283		10 949	
TOTAL-CARDIFF	1 121			851	505	346		13 421	
CARIBOU 062-10W5									
TOTAL-CARIBOU	230			163	21	142		5 376	
CAROLINE 035-06W5									
CARDIUM E SOLN	6 346	0.26	0.15	1 403	827	576	42	24 008	
CARDIUM M	606	0.90	0.10	491			41		692
CARDIUM N	88	0.80	0.15	60			41		400
CARDIUM M & N TOTAL	694	0.90	0.10	551	52	499	41	20 359	
VIKING A SOLN	872	0.65	0.15	482 ^b			40		
VIKING A ASSOC	4 589	0.92	0.10	3 800 ^b	3 200 ^b	1 082	40	42 901	17 250
GLC SS 033-05	444	0.75	0.10	300		300	41	12 246	729
GLAUCONITIC C	445	0.85	0.10	340			40		1 040
BASAL MANNVILLE K	850	0.75	0.10	574			41		2 459
BASAL MANNVILLE R	197	0.80	0.10	142			41		822
BASAL MANNVILLE GG	2 718	0.65	0.10	1 590			40		5 317
BASAL MANNVILLE QQ	537	0.75	0.10	363			41		2 142
BASAL MANNVILLE RR	101	0.75	0.10	68			40		961
BASAL MANNVILLE KKK	29	0.75	0.10	20			41		150
BASAL MANNVILLE LLL	42	0.75	0.10	29			41		150
BASAL MANNVILLE MMM	73	0.75	0.10	50			41		150
BASAL MANNVILLE M2M	49	0.75	0.10	33			41		150
BASAL MANNVILLE N2N	96	0.75	0.10	65			41		150
BASAL MANNVILLE O2O	26	0.75	0.10	18			41		150
BASAL MANNVILLE P2P	49	0.75	0.10	33			41		150
BASAL MANNVILLE Q2Q	29	0.75	0.10	20			41		150
BASAL MANNVILLE R2R	67	0.75	0.10	45			40		150
BASAL MANNVILLE B2B	66	0.80	0.15	45			41		150
BASAL MANNVILLE S2S	109	0.75	0.10	74			40		632
BASAL MANNVILLE G3G	120	0.80	0.10	86			41		566
GLAUC & BSL MANN MU#1 TOTAL	5 603	0.70	0.10	3 595	385	3 210	40	128 721	
GLAUCONITIC J	335	0.80	0.10	241			41		300
BASAL MANNVILLE P3P	36	0.80	0.10	26			41		275
BASAL MANNVILLE Q3Q	123	0.80	0.10	88			41		300
BASAL MANNVILLE R3R	10	0.80	0.10	7			41		100
BASAL MANNVILLE S3S	28	0.80	0.10	20			41		150
GLAUC & BSL MANN MU#2 TOTAL	532	0.80	0.10	382	10	372	41	15 185	
BASAL MANNVILLE B	700	0.80	0.10	504	419	85	42	3 605	150
BASAL MANNVILLE G	494	0.85	0.10	378	330	48	41	1 987	150
BASAL MANNVILLE I	544	0.85	0.10	416			40		879
BASAL MANNVILLE XX	112	0.75	0.10	76			40		300
BASAL MANNVILLE YY	22	0.75	0.10	15			40		300
BASAL MANNVILLE AAA	26	0.75	0.10	18			40		150

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
								1976	1988	TCPL CONCURRENT PRODUCTION
5.42	0.210	0.80	2 970	29	0.944	0.61	597.2	1972	1981	TCPL
2.02	0.145	0.60	8 180	41	0.839	0.66	1 300.2	1959	1985	PANALTA CWNGNUL TCPL A&S PART OF VIK POOL NO.3 PRODUCTION DECLINE
4.07	0.199	0.65	10 170	50	0.834	0.66	1 440.6	1955	1987	MATERIAL BALANCE
5.19	0.199	0.65	10 170	50	0.834	0.66	1 451.5	1955	1989	MATERIAL BALANCE
								1955	1989	CWNGNUL TCPL
1.71	0.171	0.70	10 440	41	0.803	0.68	1 321.3	1977	1988	PROGAS PANALTA MATERIAL BALANCE
4.12	0.115	0.75	26 910	77	0.887	0.72	2 503.6	1974	1988	A&S TCPL SECONDARY GAS CAP
1.90	0.056	0.80	27 250	73	0.869	0.71	2 485.0	1987	1989	TOP/BASE TVD
						0.76		1988	1989	TOP/BASE TVD
						0.67		1987	1989	
2.02	0.112	0.70	17 260	74	0.842	0.67	2 399.8	1956	1989	PANALTA VECTOR TCPL CONCURRENT PRODUCTION
2.75	0.113	0.80	27 990	83	0.913	0.68	2 767.6	1982	1987	PANALTA VECTOR TCPL CONCURRENT PRODUCTION
2.01	0.119	0.80	24 450	76	0.890	0.65	2 885.4	1981	1987	CDNHUNT AMOCO
1.69	0.108	0.75	28 480	80	0.909	0.70	3 007.9	1980	1987	
1.43	0.087	0.75	28 480	75	0.906	0.68	2 994.3	1980	1985	
2.92	0.097	0.75	27 120	80	0.908	0.67	2 935.2	1969	1987	
1.19	0.108	0.85	26 100	87	0.899	0.69	2 989.9	1981	1987	
0.85	0.078	0.70	26 060	87	0.905	0.68	2 953.0	1981	1987	
0.80	0.130	0.85	26 300	96	0.913	0.69	2 956.5	1984	1985	
1.70	0.100	0.75	26 300	96	0.913	0.69	2 940.7	1984	1985	
1.60	0.162	0.85	26 300	96	0.913	0.69	2 845.9	1982	1985	
1.80	0.100	0.80	26 100	89	0.902	0.69	3 063.9	1983	1987	
3.20	0.110	0.80	26 100	90	0.903	0.69	3 086.9	1983	1987	
1.00	0.095	0.80	26 100	87	0.899	0.69	2 903.0	1981	1987	
2.00	0.095	0.75	26 100	88	0.901	0.69	2 922.6	1981	1987	
1.00	0.100	0.85	26 100	89	0.902	0.69	2 931.0	1981	1987	
2.00	0.120	0.90	23 600	90	0.888	0.69	2 998.5	1984	1987	
2.00	0.100	0.80	31 300	77	0.921	0.79	2 838.0	1982	1985	
0.94	0.094	0.85	26 100	84	0.903	0.68	2 832.7	1961	1987	
0.89	0.110	0.80	31 300	80	0.934	0.72	2 812.6	1982	1987	
								1961	1988	GULF PANALTA DIRECT A&S AMOCO TCPL
5.50	0.105	0.80	27 930	86	0.916	0.68	2 594.5	1988	1989	
0.55	0.125	0.80	27 810	87	0.917	0.69	2 624.1	1988	1989	
1.50	0.135	0.85	27 970	90	0.921	0.68	2 657.1	1988	1988	
0.50	0.100	0.80	27 850	87	0.916	0.68	2 615.8	1988	1989	
1.00	0.090	0.85	27 840	87	0.916	0.68	2 625.4	1988	1989	
8.02	0.150	0.70	29 370	86	0.911	0.75	2 881.3	1958	1989	TCPL DEKALB
26.10	0.110	0.85	19 760	93	0.871	0.67	2 958.8	1981	1989	A&S PRODUCTION DECLINE
2.91	0.126	0.80	24 200	92	0.893	0.69	2 886.8	1980	1985	A&S PRODUCTION DECLINE
2.00	0.110	0.80	24 200	91	0.891	0.69	2 910.1	1980	1985	
0.40	0.108	0.80	24 200	92	0.893	0.70	2 888.0	1980	1985	
1.30	0.082	0.75	24 500	86	0.886	0.69	2 872.3	1980	1985	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CAROLINE 035-06W5 (CONTINUED)									
BMN I, XX, YY & AAA TOTAL	704	0.85	0.10	525	22	503	40	20 180	
BASAL MANNVILLE AA	208	0.90	0.15	159			42		971
BASAL MANNVILLE BBB	87	0.75	0.15	55			42		647
BASAL MANNVILLE CCC	191	0.85	0.15	138			42		614
BSL MANN AA, BBB & CCC TOTAL	486	0.85	0.15	352	83	269	42	11 207	
BASAL MANNVILLE A	2 500	0.80	0.10	1 800			40		5 644
BASAL MANNVILLE L	520	0.80	0.10	374			40		2 363
BASAL MANNVILLE OO	593	0.80	0.10	427			41		1 620
BASAL MANNVILLE PP	38	0.80	0.10	27			41		300
BASAL MANNVILLE SS	166	0.80	0.10	120			40		656
BASAL MANNVILLE ZZ	22	0.80	0.10	16			41		150
BASAL MANNVILLE DDD	42	0.75	0.10	29			41		128
BASAL MANNVILLE JJJ	30	0.80	0.10	22			41		150
BASAL MANNVILLE YYY	116	0.75	0.10	78			41		300
BASAL MANNVILLE TTT ASSOC	34	0.75	0.15	22			42		150
BASAL MANNVILLE J2J	115	0.75	0.10	77			40		842
BASAL MANNVILLE T2T	346	0.85	0.15	250			42		1 082
BASAL MANNVILLE U2U	27	0.75	0.10	18			41		150
BASAL MANNVILLE V2V	21	0.80	0.10	15			40		150
BASAL MANNVILLE W2W	12	0.75	0.10	8			40		150
BASAL MANNVILLE C3C	31	0.75	0.10	21			40		128
GLAUCONITIC I	109	0.75	0.10	74			41		128
BASAL MANNVILLE B3B	22	0.80	0.10	16			40		128
BASAL MANNVILLE MU #3 TOTAL	4 744	0.80	0.10	3 394	771	2 623	41	106 363	
GLAUCONITIC H	469	0.70	0.10	295			41		638
BASAL MANNVILLE QOO	37	0.75	0.10	25			40		300
BASAL MANNVILLE PPP	30	0.75	0.10	21			40		150
BASAL MANNVILLE QQQ	42	0.75	0.10	29			40		150
BASAL MANNVILLE RRR	278	0.80	0.10	200			40		757
BASAL MANNVILLE ZZZ	65	0.80	0.15	44			41		300
BASAL MANNVILLE MU #4 TOTAL	921	0.75	0.10	614	70	544	41	22 135	
BASAL MANNVILLE K2K	197	0.80	0.10	142			40		300
BASAL MANNVILLE L2L	96	0.80	0.10	69			40		300
BASAL MANNVILLE X2X	133	0.75	0.10	90			41		300
BASAL MANNVILLE MU #5 TOTAL	426	0.80	0.10	301	64	237	40	9 532	
BASAL MANNVILLE Q	77	0.75	0.10	52			40		300
BASAL MANNVILLE Y	6 278	0.60	0.10	3 390			40		8 685
BASAL MANNVILLE EE	87	0.75	0.10	59			39		300
BASAL MANNVILLE FF	142	0.75	0.10	96			39		150
BASAL MANNVILLE HH	99	0.75	0.10	67			40		690
BASAL MANNVILLE II	11	0.70	0.10	7			40		128
BASAL MANNVILLE JJ	20	0.75	0.10	14			40		150
BASAL MANNVILLE KK	28	0.75	0.10	19			40		150
BASAL MANNVILLE LL	21	0.75	0.10	14			40		150
OSTRACOD A	347	0.85	0.10	266			39		887
GLAUCONITIC F	325	0.85	0.10	249			40		1 064
BASAL MANNVILLE Y2Y	21	0.75	0.10	14			40		150
BASAL MANNVILLE H3H	36	0.75	0.10	24			40		128
BASAL MANNVILLE I3I	25	0.75	0.10	17			40		128
BASAL MANNVILLE HHH	90	0.75	0.10	61			39		432
BASAL MANNVILLE III	68	0.75	0.10	46			39		300
BASAL MANN & OST MU TOTAL	7 675	0.65	0.10	4 395	719	3 676	40	148 216	
RUNDLE A ASSOC	108	0.75	0.15	69b			40		492
RUNDLE A SOLN	4 783	0.46	0.38	1 364b			40		
RUNDLE A ASSOC	178	0.75	0.15	114b			40		289
RUNDLE A ASSOC	11	0.75	0.15	7b			40		45
RUNDLE A TOTAL	5 080	0.50	0.35	1 554b	1 058b	496	40	19 870	
ELKTON A	671	0.85	0.20	456	374	82	42	3 404	400
ELKTON I	495	0.85	0.15	358	215	143	40	5 676	400
BEAVERHILL LAKE A	61 153	c	c	21 000	79	20 921	43	896 256	11 259
OTHER	9 387			4 808	322	4 486		180 715	
TOTAL-CAROLINE	112 016			49 152	9 000	40 152		1 672 566	
CARROT CREEK 052-12W5									
LOWER MANNVILLE G	833	0.85	0.15	602			41		1 148
LOWER MANNVILLE L	261	0.85	0.20	178			41		511
LOWER MANNVILLE O	122	0.75	0.15	78			41		300
LOWER MANNVILLE G, L & O TOTAL	1 216	0.85	0.15	858	169	689	41	28 029	
LOWER MANNVILLE Q	303	0.85	0.15	219			40		128
JURASSIC T	394	0.80	0.10	284			41		608
L MANN Q & JUR T TOTAL	697	0.80	0.10	503	239	264	41	10 819	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
0.90	0.132	0.80	24 690	84	0.872	0.74	2 649.2	1980	1985	PROGAS A&S TCPL
0.75	0.114	0.70	24 690	84	0.872	0.74	2 677.0	1976	1989	
1.49	0.132	0.70	24 690	84	0.872	0.74	2 683.6	1976	1985	
								1976	1986	
2.00	0.118	0.80	26 730	87	0.900	0.71	2 689.4	1976	1987	A&S
0.90	0.125	0.85	26 370	88	0.903	0.70	2 650.4	1957	1989	
1.58	0.119	0.80	27 850	87	0.904	0.73	2 810.6	1964	1989	
0.70	0.094	0.75	30 530	91	0.934	0.73	2 773.3	1960	1988	
0.90	0.138	0.85	27 450	84	0.914	0.67	2 650.8	1981	1985	
0.80	0.090	0.80	29 330	89	0.921	0.73	2 774.0	1980	1984	
1.80	0.100	0.75	28 000	92	0.904	0.76	2 837.4	1981	1985	
1.00	0.100	0.80	29 330	89	0.921	0.73	2 792.2	1981	1985	
1.43	0.120	0.80	30 940	69	0.914	0.75	2 690.4	1981	1985	
0.90	0.130	0.75	27 550	72	0.869	0.76	2 694.3	1973	1989	
0.66	0.106	0.85	26 010	87	0.898	0.70	2 639.4	1957	1987	GPP
1.42	0.117	0.85	23 840	80	0.848	0.74	2 674.3	1980	1989	
0.80	0.110	0.85	28 300	89	0.908	0.74	2 664.1	1982	1987	
0.60	0.110	0.80	30 530	75	0.928	0.69	2 814.8	1960	1985	
0.45	0.093	0.80	24 810	75	0.867	0.71	2 782.9	1981	1985	
1.20	0.120	0.80	23 300	88	0.865	0.74	2 641.4	1981	1985	
4.00	0.120	0.85	22 600	83	0.862	0.71	2 594.5	1963	1987	
1.00	0.090	0.70	29 920	72	0.916	0.70	2 668.3	1984	1987	
								1960	1988	
3.22	0.124	0.80	25 680	87	0.882	0.73	2 556.1	1984	1989	GULF PANALTA NORCEN AMOCO A&S TCPL
0.60	0.112	0.80	25 880	85	0.896	0.69	2 583.9	1984	1988	
0.85	0.120	0.80	27 140	79	0.899	0.69	2 605.7	1984	1988	
1.30	0.110	0.85	25 880	85	0.896	0.69	2 598.4	1984	1985	
1.76	0.107	0.80	27 140	79	0.899	0.69	2 611.7	1984	1989	
0.75	0.130	0.85	28 840	79	0.889	0.80	2 629.0	1985	1986	
								1984	1988	
2.50	0.106	0.85	38 770	91	1.037	0.73	3 118.0	1983	1986	TCPL SHELL A&S
1.45	0.107	0.75	36 680	100	1.021	0.69	3 135.1	1983	1988	
1.50	0.129	0.80	38 770	98	1.040	0.70	3 181.6	1983	1987	
								1983	1987	
1.00	0.126	0.90	25 770	91	0.888	0.75	2 869.1	1980	1987	
4.05	0.107	0.80	23 660	90	0.889	0.68	2 843.5	1978	1989	
2.00	0.102	0.70	22 600	88	0.880	0.70	2 925.0	1980	1986	
4.00	0.140	0.85	22 600	91	0.885	0.70	2 943.0	1980	1988	
1.03	0.100	0.70	22 470	94	0.873	0.73	2 954.6	1979	1983	
0.74	0.077	0.65	26 000	77	0.881	0.71	2 908.7	1981	1983	
1.40	0.075	0.65	22 200	92	0.868	0.73	2 936.5	1979	1988	
1.16	0.095	0.70	26 750	78	0.890	0.71	2 915.5	1981	1988	
1.22	0.077	0.80	19 800	78	0.850	0.69	2 981.1	1980	1988	
2.63	0.094	0.80	22 800	93	0.895	0.68	2 982.5	1980	1982	
1.70	0.092	0.85	25 710	90	0.917	0.64	2 768.3	1982	1989	
1.20	0.081	0.65	22 920	77	0.856	0.71	2 869.2	1984	1987	
2.00	0.100	0.65	23 770	85	0.883	0.69	2 854.3	1984	1986	
1.30	0.110	0.65	23 770	85	0.883	0.69	2 859.2	1984	1986	
1.17	0.103	0.85	23 000	89	0.892	0.68	2 800.6	1979	1985	
1.35	0.097	0.85	23 000	89	0.892	0.67	2 806.6	1980	1985	
								1978	1989	
1.87	0.070	0.75	24 940	80	0.895	0.68	2 733.6	1955	1989	GULF PROGAS DIRECT VECTOR AMOCO A&S TCPL
								1955	1989	DRY GAS BREAKTHROUGH
3.04	0.106	0.85	24 940	80	0.895	0.68	2 671.8	1955	1989	DRY GAS BREAKTHROUGH
1.24	0.100	0.85	24 940	80	0.895	0.68	2 770.2	1955	1989	
								1955	1989	
9.87	0.099	0.80	23 740	93	0.859	0.81	2 830.9	1959	1989	TCPL DEKALB A&S DRY GAS BREAKTHROUGH
6.15	0.117	0.80	24 750	89	0.905	0.70	2 873.0	1981	1988	A&S
18.77	0.104	0.90	36 650	102	0.899	1.17	3 705.8	1986	1989	SHELL CEL A&S TCPL
5.02	0.119	0.70	17 660	81	0.818	0.75	2 135.5	1976	1986	
2.86	0.115	0.75	17 900	65	0.728	0.85	2 180.2	1976	1982	
2.40	0.137	0.65	17 520	64	0.780	0.75	2 150.2	1979	1986	
								1976	1986	
9.97	0.130	0.75	23 100	62	0.805	0.79	2 060.1	1979	1986	TCPL
3.88	0.107	0.65	23 100	63	0.814	0.74	2 094.1	1979	1989	
								1979	1989	
										PROGAS PANALTA

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CARROT CREEK 052-12W5 (CONTINUED)									
LOWER MANNVILLE M SOLN	1 077	0.65	0.40	420			41		
JURASSIC V ASSOC	57	0.70	0.10	36			40		217
JURASSIC W	50	0.70	0.10	32			40		170
LMAN M, JUR D,P,V&W TOTAL	1 184	0.65	0.35	488	184	304	41	12 592	
OTHER	5 081			3 131	644	2 487		99 360	
TOTAL-CARROT CREEK	8 178			4 980	1 236	3 744		150 800	
CARSON CREEK 061-12W5									
BEAVERHILL LAKE B	10 941	C	C	8 030			42a		8 415
BEAVERHILL LAKE B TOTAL	10 941	0.90	0.20	8 030	5 789	2 241	42	93 338	
TOTAL-CARSON CREEK	10 941			8 030	5 789	2 241		93 338	
CARSON CREEK NORTH 062-12W5									
BEAVERHILL LAKE A ASSOC	637	0.85	0.15	460b			42		1 155
BEAVERHILL LAKE A SOLN	16 495	0.46	0.15	6 450b			42		
BEAVERHILL LAKE B ASSOC	182	0.75	0.15	116b			42		286
BEAVERHILL LAKE A&B TOTAL	17 314	0.50	0.15	7 026b	5 162b	1 864	42	77 692	
TOTAL-CARSON CREEK NORTH	17 314			7 026	5 162	1 864		77 692	
CARSTAIRS 030-02W5									
ELKTON A	29 728	0.93	0.15	23 500	21 184	2 316	40	93 288	6 316
ELKTON C	611	0.80	0.15	416		416	40	16 811	200
OTHER	736			480	44	436		17 430	
TOTAL-CARSTAIRS	31 075			24 396	21 228	3 168		127 529	
CARVEL 053-02W5									
TOTAL-CARVEL	462			310		310		11 562	
CASLAN 065-17W4									
NISKU A	621	0.75	0.05	443	187	256	37	9 464	1 955
OTHER	633			393	132	261		9 810	
TOTAL-CASLAN	1 254			836	319	517		19 274	
CASSILS 019-15W4									
MILK RIVER A	2 481	0.70	0.05	1 650			36		9 504
MEDICINE HAT A	1 237	0.70	0.03	840			36		8 311
MEDICINE HAT C	206	0.50	0.03	100			36		4 462
SE ALTA GAS SYS (MU) TOTAL	3 924	0.70	0.05	2 590	434	2 156	36	78 629	
OTHER	1			1	1	< 1		-	
TOTAL-CASSILS	3 925			2 591	435	2 156		78 629	
CAVALIER 024-23W4									
TOTAL-CAVALIER	121			71		71		2 624	
CAW (SA) 061-06W6									
TOTAL-CAW	91			60		60		2 406	
CECIL 084-08W6									
TOTAL-CECIL	816			565	24	541		20 576	
CECILIA 057-22W5									
NIS 056-22	2 308	0.80	0.35	1 200		1 200	37	44 724	856
OTHER	353			254		254		9 820	
TOTAL-CECILIA	2 661			1 454		1 454		54 544	
CENTRON (SA) 023-26W4									
TOTAL-CENTRON	21			11		11		402	
CEREAL 026-07W4									
TOTAL-CEREAL	147			93		93		3 407	
CESSFORD 025-13W4									
MILK RIVER A	4 180	0.70	0.05	2 780			36		81 234
MEDICINE HAT A	10 677	0.70	0.03	7 250			36		128 237
MEDICINE HAT C	456	0.50	0.03	221			36		15 830
MEDICINE HAT D	1 124	0.50	0.03	545			36		35 606
SECOND WHITE SPECKS A	576	0.75	0.05	410			36		8 868
SE ALTA GAS SYS(MU) TOTAL	17 013	0.70	0.05	11 206	1 745	9 461	36	345 043	
VIKING D		0.65	0.03				37		200

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.90 1.79	0.119 0.133	0.70 0.75	17 200 17 100	78 80	0.832 0.837	0.74 0.71 0.71	2 140.8 2 154.8	1976 1976 1980 1976	1989 1986 1986 1989	SOLN MU - L MANN M, JURASSIC O&P NONCOMMERCIAL OIL PROGAS
7.54	0.077	0.80	26 130	93	0.850	0.92	2 620.0	1957 1957	1988 1989	GAS CYCLING SCHEME TCPL A&S GAS CYCLING
3.13 3.00	0.089 0.102	0.85 0.90	25 750 25 920	85 88	0.878 0.884	0.75 0.75 0.74	2 641.5 2 651.8	1958 1958 1958 1958	1988 1988 1987 1988	SOLN MU-BEAVERHILL LAKE A&B, CONC PROD SOLN MU-BEAVERHILL LAKE A&B, CONC PROD A&S CONCURRENT PRODUCTION
18.65 18.18	0.121 0.115	0.90 0.85	22 820 17 240	80 75	0.853 0.819	0.78 0.76	2 466.4 2 401.8	1958 1986	1989 1989	TCPL PRODUCTION DECLINE GAS CYCLING SCHEME
9.10	0.165	0.65	3 150	20	0.939	0.58	586.2	1976	1982	PANALTA
10.32 3.45 1.17	0.154 0.170 0.139	0.55 0.55 0.60	3 140 4 310 4 450	16 17 19	0.937 0.916 0.916	0.56 0.56 0.56	355.7 487.7 487.7	1910 1904 1973 1904	1987 1987 1982 1988	PART OF MILK RIV POOL NO. 1 PRODUCTION DECLINE PART OF MED HAT POOL NO. 1 PART OF MED HAT POOL NO. 3 PANALTA TCPL
15.30	0.075	0.85	34 460	103	0.943	0.74	3 475.3	1987	1989	A&S CDNHUNT BER TOP/BASE TVD
3.48 1.93 0.73 0.80 0.84 1.80	0.154 0.170 0.139 0.139 0.216 0.155	0.55 0.55 0.60 0.60 0.60 0.45	3 140 4 310 4 450 4 450 5 690 7 550	16 17 19 19 27 29	0.937 0.916 0.916 0.916 0.904 0.870	0.56 0.56 0.56 0.56 0.56 0.59	355.7 487.7 487.7 487.7 630.0 781.1	1910 1904 1973 1973 1944 1904 1967	1987 1987 1988 1988 1982 1988 1989	PART OF MILK RIV POOL NO. 1 PRODUCTION DECLINE PART OF MED HAT POOL NO. 1 PART OF MED HAT POOL NO. 3 PART OF MED HAT POOL NO. 4 PART OF 2WS POOL NO. 1 PROGAS POCO PANALTA ESSO RENENER CNG TCPL PRODUCTION DECLINE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CESSFORD 025-13W4 (CONTINUED)									
VIKING H		0.65	0.03				38		1 548
VIKING D & H TOTAL	588	0.65	0.05	371	291	80	37	2 997	
BASAL COLORADO A ASSOC		0.90	0.04				38		41 326
BASAL COLORADO A SOLN	544	0.47	0.20	205b			38		
BASAL COLORADO A ASSOC		0.90	0.04				38		580
BASAL COLORADO A ASSOC		0.90	0.04				38		93
BASAL COLORADO A TOTAL	20 220	0.90	0.05	17 205b	16 848b	357	38	13 698	
BASAL COLORADO O	1 050	0.80	0.10	756	680	76	38	2 918	4 000
BASAL COLORADO E		0.85	0.10				38		3 590
MANNVILLE N		0.85	0.04				38		440
MANNVILLE O		0.75	0.05				38		200
BSL COLO E & MANN N&O TOTAL	1 978	0.85	0.10	1 530	1 451	79	38	3 008	
MANNVILLE I ASSOC	433	0.75	0.04	312	104	208	38	7 968	377
MANNVILLE C ASSOC	1 934	0.85	0.10	1 480b			40		2 897
MANNVILLE C SOLN	1 408	0.65	0.20	732b			40		
MANNVILLE C ASSOC	15	0.75	0.10	10b			40		64
MANNVILLE C TOTAL	3 357	0.75	0.15	2 222b	1 640b	582	40	23 542	
MANNVILLE G	1 314	0.70	0.04	883	849	34	38	1 283	1 709
MANNVILLE H	1 805	0.75	0.04	1 300	1 232	68	37	2 536	2 836
MANNVILLE J	774	0.72	0.04	535	491	44	38	1 661	705
MANNVILLE V	1 900	0.85	0.04	1 550	1 324	226	38	8 527	1 281
MANNVILLE Y ASSOC		0.85	0.10				39		298
MANNVILLE Y SOLN	241	0.65	0.30	110b			39		
MANNVILLE Z ASSOC		0.85	0.10				39		96
MANNVILLE Y & Z TOTAL	753	0.80	0.15	502b	420b	82	39	3 175	
MANNVILLE L		0.75	0.05				39		498
MANNVILLE CC		0.75	0.05				38		2 484
MANNVILLE L & CC TOTAL	609	0.75	0.05	434	369	65	38	2 483	
GLC SS 31-023-13	411	0.80	0.05	313		313	38	11 888	150
GLAUCONITIC T	345	0.80	0.10	248b			39		2 038
MANNVILLE HH ASSOC	1 075	0.80	0.10	774b			38		2 447
MANNVILLE HH SOLN	13	0.65	0.35	5b			38		
GLAUC T & MANN HH TOTAL	1 433	0.80	0.10	1 027b	318b	709	38	26 999	
BANFF B ASSOC	385	0.85	0.10	294b			39		1 615
BANFF B SOLN	313	0.65	0.12	179b			39		
BANFF B ASSOC	2	0.75	0.10	2b			39		26
BANFF B ASSOC	6	0.75	0.10	5b			39		72
BANFF B TOTAL	706	0.75	0.10	480b	171b	309	39	12 113	
OTHER	9 877			6 442	2 462	3 980		149 060	
TOTAL-CESSFORD	64 221			47 068	30 395	16 673		618 899	
CHAIN 033-17W4									
TOTAL-CHAIN	1 402			895	202	693		26 555	
CHAMBERLAIN 052-23W4									
TOTAL-CHAMBERLAIN	8			5		5		191	
CHAMBERS 041-10W5									
ELTN 05-041-11	457	0.85	0.15	330		330	39	12 857	200
OTHER	1 128			794		794		31 274	
TOTAL-CHAMBERS	1 585			1 124		1 124		44 131	
CHANDLER 059-02W4									
TOTAL-CHANDLER	404			241	78	163		5 926	
CHARD 079-06W4									
WABISKAW B	59	0.50	0.05	29			37		3 558
WABISKAW D	23	0.50	0.05	11			38		1 567
WABISKAW E	3	0.50	0.10	2			41		269
WABISKAW F	8	0.70	0.05	6			37		200
MCMURRAY B	4 224	0.75	0.05	3 010			37		22 787
MCMURRAY D	89	0.50	0.05	43			37		772
MCMURRAY E	148	0.50	0.05	70			37		2 790
MCMURRAY F	6	0.50	0.05	3			37		237
MCMURRAY G	9	0.50	0.05	5			37		279

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.12	0.189	0.50	7 630	27	0.853	0.60	800.9	1965	1989	PRODUCTION DECLINE
3.45	0.252	0.65	8 810	27	0.822	0.62	881.3	1965	1989	A&S POCO TCPL
1.94	0.265	0.60	8 810	27	0.822	0.62	917.6	1950	1989	MATERIAL BALANCE CONCURRENT PRODUCTION
1.75	0.265	0.60	8 810	27	0.822	0.62	918.4	1950	1989	MATERIAL BALANCE CONCURRENT PRODUCTION
2.47	0.241	0.55	7 600	28	0.837	0.65	923.0	1950	1989	MATERIAL BALANCE
2.43	0.212	0.50	8 680	27	0.820	0.63	899.0	1950	1988	MATERIAL BALANCE
3.08	0.212	0.50	9 760	33	0.813	0.66	1 012.9	1951	1988	MATERIAL BALANCE
6.17	0.233	0.60	8 720	33	0.828	0.66	973.2	1953	1988	MATERIAL BALANCE
2.49	0.218	0.70	9 740	33	0.838	0.59	1 019.9	1950	1988	ESSO TCPL
3.33	0.240	0.70	9 720	33	0.757	0.71	1 014.6	1951	1986	TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
1.23	0.230	0.70	9 720	33	0.757	0.71	1 023.5	1951	1982	CONCURRENT PRODUCTION
4.02	0.210	0.50	9 760	33	0.813	0.66	1 036.1	1951	1986	CONCURRENT PRODUCTION
4.30	0.254	0.55	9 930	27	0.828	0.60	933.3	1950	1986	ESSO TCPL CONCURRENT PRODUCTION
5.50	0.227	0.65	10 580	33	0.803	0.66	1 037.7	1950	1986	TCPL MATERIAL BALANCE
3.14	0.222	0.60	9 650	38	0.827	0.66	1 123.5	1958	1987	TCPL PRODUCTION DECLINE
2.05	0.210	0.65	9 710	32	0.808	0.65	1 000.1	1958	1989	PRODUCTION DECLINE
						0.65		1951	1989	TCPL MATERIAL BALANCE
0.69	0.233	0.65	9 680	29	0.801	0.64	991.3	1951	1989	PRODUCTION DECLINE SOLN MU - MANNVILLE
								1951	1989	Y&Z, CONC PROD
3.03	0.023	0.50	9 650	35	0.792	0.70	1 107.6	1962	1985	PRODUCTION DECLINE
2.04	0.170	0.50	9 450	35	0.850	0.59	1 087.1	1962	1980	ESSO TCPL CONCURRENT PRODUCTION
								1962	1980	MATERIAL BALANCE
16.50	0.220	0.70	9 640	33	0.830	0.62	970.0	1962	1980	MATERIAL BALANCE
1.64	0.177	0.55	9 670	40	0.828	0.64	1 282.0	1966	1987	TCPL
4.77	0.152	0.55	9 830	38	0.816	0.68	1 229.9	1966	1987	PART OF GLAUC POOL NO.4
						0.68		1972	1989	PART OF GLAUC POOL NO.4 SOLN MU - GLAUC T & MANN HH
								1972	1989	PART OF GLAUC POOL NO.4 SOLN MU - GLAUC T & MANN HH
2.53	0.151	0.50	10 900	38	0.799	0.66	1 195.0	1966	1989	POCO TCPL PART OF GLAUC POOL NO.4 GAS PRODUCED BEFORE OIL DISCOVERED
0.73	0.151	0.50	10 900	38	0.799	0.65	1 269.7	1973	1985	CONCURRENT PRODUCTION
0.94	0.151	0.50	10 900	37	0.800	0.66	1 278.5	1973	1985	CONCURRENT PRODUCTION
								1973	1989	CONCURRENT PRODUCTION
14.87	0.080	0.85	29 790	110	0.978	0.66	3 398.8	1973	1974	POCO TCPL CONCURRENT PRODUCTION
0.72	0.251	0.50	1 790	15	0.963	0.55	207.7	1979	1988	
0.65	0.272	0.45	1 740	7	0.960	0.55	257.4	1979	1988	
0.45	0.258	0.50	1 550	10	0.949	0.69	259.6	1986	1988	
1.00	0.250	0.40	3 510	12	0.926	0.56	230.9	1986	1988	
5.04	0.278	0.75	1 730	16	0.965	0.55	244.6	1986	1989	
3.14	0.271	0.75	1 780	18	0.964	0.55	315.2	1986	1989	
1.66	0.280	0.65	1 730	18	0.965	0.55	218.3	1986	1989	
1.09	0.263	0.55	1 420	9	0.968	0.55	211.7	1986	1989	
1.19	0.270	0.60	1 570	10	0.965	0.55	324.0	1986	1988	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CHARD 079-06W4 (CONTINUED)									
MCMURRAY H	7	0.60	0.05	4			37		200
MCMURRAY I	18	0.50	0.05	9			38		469
MCMURRAY J	17	0.50	0.05	9			38		518
MCMURRAY K	25	0.50	0.05	12			37		200
MCMURRAY L	9	0.50	0.05	5			37		200
MCMURRAY M	53	0.50	0.05	26			37		200
WBSK & MCM MU+ TOTAL	4 698	0.75	0.05	3 244	1 346	1 898	37	70 947	
OTHER	570			306		306		11 378	
TOTAL-CHARD	5 268			3 550	1 346	2 204		82 325	
CHARLIE 089-05W6									
GETHING C	464	0.80	0.05	352			37		2 341
GETHING E	81	0.70	0.05	54			37		300
GETHING C & E TOTAL	545	0.80	0.05	406	50	356	37	13 065	
OTHER	165			106	14	92		3 507	
TOTAL-CHARLIE	710			512	64	448		16 572	
CHARLOTTE LAKE 060-04W4									
COLONY G	885	0.65	0.05	546	332	214	38	8 162	2 931
COLONY A		0.65	0.05				38		4 396
GRAND RAPIDS A		0.55	0.05				37		463
COLONY A & GRD RAP A TOTAL	1 000	0.65	0.05	618	339	279	38	10 641	
OTHER	794			479	122	357		13 324	
TOTAL-CHARLOTTE LAKE	2 679			1 643	793	850		32 127	
CHARM 103-09W6									
TOTAL-CHARM	57			38		38		1 384	
CHARRON 069-16W4									
GRAND RAPIDS B	457	0.70	0.05	304	192	112	38	4 212	1 219
GROSMONT A	877	0.60	0.05	500	425	75	37	2 768	5 142
OTHER	1 466			845	172	673		24 979	
TOTAL-CHARRON	2 800			1 649	789	860		31 959	
CHAUVIN 043-01W4									
TOTAL-CHAUVIN	659			438	4	434		14 951	
CHAUVIN SOUTH 042-02W4									
TOTAL-CHAUVIN SOUTH	2 184			1 408	391	1 017		34 870	
CHEDDERVILLE 037-07W5									
LEDUC A	2 157	0.60	0.15	1 100	887	213	39	8 281	1 469
LEDUC B	1 123	0.80	0.10	809	183	626	39	24 571	200
OTHER	85			58		58		2 327	
TOTAL-CHEDDERVILLE	3 365			1 967	1 070	897		35 179	
CHERHILL 056-05W5									
BANFF F SOLN	635	0.65	0.20	330	44	286	40	11 446	
BANFF A SOLN	1 008	0.40	0.75	101b			40		
BANFF A ASSOC	365	0.85	0.10	279b	79b	301	40	11 971	448
BANFF H ASSOC	261	0.70	0.10	165b			39		329
BANFF H SOLN	544	0.65	0.15	301b			39		
BANFF H ASSOC	2	0.70	0.10	1b			39		5
BANFF H ASSOC	135	0.70	0.10	86b			39		253
BANFF H ASSOC	85	0.70	0.10	54b			40		176
BANFF H TOTAL	1 027	0.65	0.10	607b	175b	432	39	17 016	
OTHER	2 928			1 900	274	1 626		62 879	
TOTAL-CHERHILL	5 963			3 217	572	2 645		103 312	
CHERPETA 074-19W4									
TOTAL-CHERPETA	918			513		513		18 923	
CHERRY (SA) 008-12W4									
TOTAL-CHERRY	65			47		47		1 581	
CHICKADEE 062-16W5									
GETHING D ASSOC	1 040	0.80	0.10	749	143	606	39	23 798	1 971
GETHING A	1 262	0.75	0.10	852	182	670	39	25 835	2 442
SW HL 062-16	559	0.85	0.15	404		404	39	15 728	564
OTHER	892			587	97	490		19 428	
TOTAL-CHICKADEE	3 753			2 592	422	2 170		84 789	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.60	0.300	0.45	1 640	16	0.966	0.55	209.2	1985	1988	PARAMNT SOQUIP PANALTA PCI HOME ESSO CANOXY BVI TCPL
1.05	0.307	0.65	1 750	8	0.961	0.55	310.4	1985	1988	
1.16	0.300	0.55	1 680	16	0.966	0.55	255.7	1986	1988	
4.70	0.250	0.60	1 720	17	0.966	0.56	283.2	1988	1989	
1.70	0.280	0.55	1 660	8	0.963	0.56	213.4	1988	1989	
7.60	0.270	0.75	1 660	11	0.965	0.56	221.2	1988	1989	
								1957	1989	
2.03	0.205	0.65	7 170	39	0.891	0.60	1 070.9	1979	1988	PROGAS
3.10	0.203	0.60	7 180	46	0.900	0.58	1 049.9	1986	1986	
								1979	1989	
1.90	0.301	0.70	2 430	12	0.945	0.57	330.5	1972	1989	TRITON RENENER MATERIAL BALANCE
2.49	0.295	0.75	2 230	13	0.950	0.57	346.3	1964	1989	MATERIAL BALANCE
0.67	0.309	0.55	2 470	14	0.948	0.56	365.6	1983	1989	MATERIAL BALANCE
								1964	1989	TRITON DIRECT CNG
1.78	0.337	0.75	2 270	12	0.951	0.56	284.3	1978	1988	CWNGNUL PRODUCTION DECLINE
7.57	0.141	0.75	2 620	23	0.951	0.57	463.6	1974	1986	PRODUCTION DECLINE
12.01	0.063	0.90	30 430	134	0.986	0.71	3 555.0	1967	1989	PANALTA ESSO BP
47.00	0.060	0.90	28 940	110	0.971	0.64	3 631.7	1987	1989	GULF
5.06	0.181	0.70	10 910	41	0.777	0.71	1 299.8	1981	1987	CWNGNUL CONCURRENT PRODUCTION CWNGNUL CONCURRENT PRODUCTION CONCURRENT PRODUCTION CONCURRENT PRODUCTION
5.28	0.184	0.70	10 810	48	0.821	0.66	1 357.9	1966	1988	
						0.66		1973	1989	
2.40	0.270	0.55	10 810	48	0.821	0.66	1 372.2	1973	1988	
3.03	0.215	0.70	10 810	48	0.821	0.66	1 343.7	1973	1988	
2.80	0.197	0.75	10 810	48	0.821	0.65	1 329.5	1973	1988	
								1973	1989	
										PROGAS TCPL CONCURRENT PRODUCTION
4.44	0.150	0.60	14 000	76	0.864	0.64	1 856.7	1980	1989	PROGAS CONCURRENT PRODUCTION
4.97	0.140	0.55	14 110	73	0.859	0.66	1 863.8	1978	1987	PROGAS
6.53	0.088	0.80	27 870	117	0.942	0.79	2 978.4	1976	1984	PROGAS

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CHICKEN 062-07W6 TOTAL-CHICKEN	464			310	11	299		11 733	
CHIGWELL 041-24W4 MANNVILLE A	790	0.80	0.10	569	569	< 1	39	-	694
MANNVILLE U	1 733	0.75	0.10	1 170	149	1 021	39	39 901	1 241
OTHER	4 099			2 478	482	1 996		78 215	
TOTAL-CHIGWELL	6 622			4 217	1 200	3 017		118 116	
CHIGWELL NORTH 042-24W4 TOTAL-CHIGWELL NORTH	92			60		60		2 393	
CHIME (SA) 061-05W6 TOTAL-CHIME	940			672		672		26 778	
CHIN COULEE 007-14W4 TOTAL-CHIN COULEE	117			51	10	41		1 314	
CHINCHAGA 097-06W6 SLAVE POINT A	1 389	0.80	0.10	1 000	277	723	38	27 662	1 638
OTHER	337			232		232		8 938	
TOTAL-CHINCHAGA	1 726			1 232	277	955		36 600	
CHINCHAGA NORTH 098-07W6 DEBOLT-DETRITAL A	800	0.80	0.05	608	541	67	37	2 476	2 622
OTHER	99			70		70		2 660	
TOTAL-CHINCHAGA NORTH	899			678	541	137		5 136	
CHINOOK 029-08W4 BELLY RIVER A	367	0.87	0.05	303	296	7	37	259	4 403
OTHER	442			284	57	227		8 398	
TOTAL-CHINOOK	809			587	353	234		8 657	
CHINOOK RIDGE (SA) 065-13W6 CDOT 12-065-13	841	0.90	0.10	681		681	39	26 838	440
NOTI 12-065-13	645	0.90	0.10	523		523	39	20 449	250
BELL 11-065-13	749	0.80	0.25	449		449	37	16 541	200
OTHER	319			230		230		9 064	
TOTAL-CHINOOK RIDGE	2 554			1 883		1 883		72 892	
CHIP LAKE 053-10W5 ROCK CREEK C	440	0.90	0.10	356	348	8	40	321	428
OTHER	180			108		108		4 572	
TOTAL-CHIP LAKE	620			464	348	116		4 893	
CHIPMUNK (SA) 082-12W5 TOTAL-CHIPMUNK	33			24		24		879	
CHISHOLM 068-01W5 TOTAL-CHISHOLM	840			538	281	257		9 511	
CINDY 077-01W6 TOTAL-CINDY	113			80	55	25		986	
CLAIR 073-05W6 TOTAL-CLAIR	190			136		136		5 130	
CLARESHOLM 013-26W4 TOTAL-CLARESHOLM	1 515			1 009	174	835		32 085	
CLAY 060-13W4 VIKING A	1 133	0.40	0.05	430	1	429	37	15 770	19 603
OTHER	1 634			1 134	666	468		17 409	
TOTAL-CLAY	2 767			1 564	667	897		33 179	
CLAYHURST 083-05W6 TOTAL-CLAYHURST	14			8		8		308	
CLEAR HILLS (SA) 087-11W6 TOTAL-CLEAR HILLS	186			118		118		4 468	
CLEAR PRAIRIE 091-12W6 TOTAL-CLEAR PRAIRIE	331			214		214		8 179	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
7.38 8.72	0.170 0.159	0.65 0.80	11 530 11 930	64 56	0.834 0.819	0.70 0.69	1 571.2 1 573.7	1952 1977	1985 1988	PROGAS PANALTA ESSO
7.20	0.081	0.60	20 600	93	0.842	0.83	2 149.7	1973	1984	PANALTA MATERIAL BALANCE
3.78	0.204	0.65	5 770	28	0.896	0.58	691.7	1978	1986	PROGAS PANALTA A&S
2.87	0.346	0.65	1 670	18	0.967	0.56	244.2	1972	1987	CWNGNUL MATERIAL BALANCE
7.09 9.87 19.80	0.200 0.200 0.120	0.70 0.70 0.65	22 750 23 440 37 510	98 112 150	0.906 0.927 1.040	0.67 0.67 0.69	2 807.1 2 881.6 4 303.0	1956 1956 1979	1981 1988 1983	BER BER BER
4.61	0.140	0.80	21 370	57	0.803	0.72	1 856.9	1950	1988	TCPL MATERIAL BALANCE NONCOMMERCIAL OIL
1.03	0.252	0.50	4 180	18	0.917	0.57	454.4	1949	1988	PANALTA PART OF VIK POOL NO.6

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CLEARWATER 035-12W5									
RUNDLE A	7 189	0.85	0.10	5 500	247	5 253	38	202 083	1 124
TOTAL-CLEARWATER	7 189			5 500	247	5 253		202 083	
CLIFFDALE (SA) 084-17W5									
TOTAL-CLIFFDALE	34			19		19		732	
CLIVE 040-24W4									
D-2 A POOL 1 ASSOC	158	0.85	0.15	114 ^b			35		293
D-2 A POOL 1 SOLN	1 146	0.48	0.40	330 ^b			35		
D-2 A POOL 2 ASSOC	89	0.85	0.25	57 ^b			44		322
D-2 A POOL 3 ASSOC	935	0.85	0.35	517 ^b			43		1 371
D-2 A POOL 4 ASSOC	3	0.85	0.25	2 ^b			38		16
D-2 A TOTAL	2 331	0.65	0.35	1 020 ^b	483 ^b	537	39	21 093	
D-3 A ASSOC	149	0.85	0.30	89			42		385
D-3 A SOLN	2 077	0.66	0.35	891			42		
D-3 A POOL 2 ASSOC	378	0.85	0.30	225			42		516
D-3 A POOL 3 ASSOC	381	0.85	0.30	227			40		451
D-3 A POOL 4 ASSOC	102	0.85	0.30	61			42		314
D-3 A TOTAL	3 087	0.70	0.35	1 493	701	792	42	33 106	
OTHER	2 317			1 523	273	1 250		47 532	
TOTAL-CLIVE	7 735			4 036	1 457	2 579		101 731	
CLOUSTON (SA) 071-25W5									
TOTAL-CLOUSTON	68			46		46		1 766	
CLOVER 061-17W5									
TOTAL-CLOVER	215			149	38	111		4 295	
CLYDE LAKE 073-10W4									
TOTAL-CLYDE LAKE	55			34		34		1 268	
CLYDEN 075-13W4									
TOTAL-CLYDEN	255			151		151		5 581	
COALDALE 008-20W4									
TOTAL-COALDALE	606			338	242	96		3 354	
CODDIN (SA) 088-19W5									
TOTAL-CODDIN	7			5		5		183	
COLD LAKE 063-02W4									
COLONY A	355	0.90	0.05	304	249	55	37	2 024	710
COLONY D	465	0.85	0.05	375	222	153	37	5 693	945
OTHER	483			268	110	158		5 782	
TOTAL-COLD LAKE	1 303			947	581	366		13 499	
COLEMAN 009-04W5									
RUNDLE A	10 461	0.75	0.35	5 100			37		1 998
PALLISER B	3 428	0.75	0.30	1 800			37		630
RUNDLE A & PALLISER B TOTAL	13 889	0.75	0.35	6 900	2 159	4 741	37	175 607	
TOTAL-COLEMAN	13 889			6 900	2 159	4 741		175 607	
COLINTON 064-20W4									
TOTAL-COLINTON	585			362	46	316		11 810	
COLORADO 090-04W6									
TOTAL-COLORADO	294			167	49	118		4 364	
COLT 058-24W5									
TOTAL-COLT	484			325	3	322		12 586	
COLUMBIA 046-16W5									
VIKING A	1 570	0.80	0.10	1 130	9	1 121	40	45 344	1 581
NISKU B	891	0.70	0.40	374	311	63	37	2 322	128
OTHER	511			371	6	365		14 267	
TOTAL-COLUMBIA	2 972			1 875	326	1 549		61 933	
COMPEER 033-02W4									
UPPER MANNVILLE A	448	0.85	0.05	362	112	250	37	9 278	929
OTHER	646			459	194	265		9 885	
TOTAL-COMPEER	1 094			821	306	515		19 163	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
40.28	0.066	0.90	35 250	94	1.022	0.62	4 259.0	1980	1988	SHELL
5.79	0.065	0.85	17 100	67	0.847	0.75	1 850.7	1951	1988	CONING GAS CAP
2.51	0.063	0.85	17 090	67	0.693	0.90	1 832.9	1951	1989	CONING GAS CAP
6.20	0.062	0.85	17 070	67	0.684	0.89	1 850.2	1951	1986	
2.13	0.063	0.85	17 060	67	0.772	0.84	1 883.7	1951	1984	
4.04	0.056	0.85	17 570	67	0.728	0.83	1 886.4	1952	1989	PANALTA ESSO TCPL CONING GAS CAP
7.62	0.056	0.85	17 600	67	0.728	0.83	1 912.6	1952	1986	
8.16	0.056	0.85	17 570	57	0.697	0.90	1 881.5	1952	1986	
3.39	0.056	0.85	17 550	67	0.728	0.83	1 874.0	1952	1989	PANALTA ESSO TCPL
1.60	0.310	0.70	2 300	20	0.955	0.57	269.1	1952	1989	TRITON MATERIAL BALANCE
2.27	0.310	0.70	2 300	18	0.954	0.56	270.1	1952	1989	TRITON MATERIAL BALANCE
28.86	0.068	0.85	30 950	67	0.844	0.76	3 053.4	1969	1989	MATERIAL BALANCE
41.70	0.050	0.80	33 700	102	0.958	0.70	3 605.0	1969	1984	MATERIAL BALANCE
								1969	1989	A&S
4.09	0.126	0.75	31 500	89	0.963	0.66	3 057.9	1979	1989	CDNHUNT TOP/BASE TVD
17.00	0.098	0.85	59 770	127	1.170	0.81	4 213.5	1980	1989	GULF PANALTA CNG PRODUCTION DECLINE
3.36	0.273	0.70	6 890	26	0.873	0.59	865.2	1956	1989	MIP

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
COMREY 001-07W4									
BOW ISLAND	734	0.80	0.05	558	549	9	37	329	2 447
OTHER	511			344	145	199		7 280	
TOTAL-COMREY	1 245			902	694	208		7 609	
CONKLIN (SA) 075-07W4									
TOTAL-CONKLIN	55			31		31		1 148	
CONNEMARA 016-27W4									
RUND 04-016-27	498	0.90	0.15	381		381	37	14 249	200
OTHER	43			20		20		745	
TOTAL-CONNEMARA	541			401		401		14 994	
CONNORSVILLE 025-15W4									
MILK RIVER A	1 017	0.70	0.05	676			36		16 500
MEDICINE HAT A	2 827	0.70	0.03	1 920			36		25 598
SE ALTA GAS SYS (MU) TOTAL	3 844	0.70	0.05	2 596		2 504	36	91 321	
VIKING A	527	0.60	0.05	300	144	156	38	5 875	2 506
GLAUCONITIC A	303	0.85	0.10	232			39		440
GLAUCONITIC B	31	0.75	0.05	22			38		128
GLAUCONITIC C	236	0.75	0.05	168			38		738
GLAUCONITIC E	206	0.75	0.10	140			39		150
GLAUCONITIC I	32	0.75	0.10	22			39		150
ELLERSLIE A	3 820	0.80	0.10	2 750			39		9 732
GLAUC ABCEI & ELLERS A TOTAL	4 628	0.80	0.10	3 334	1 531	1 803	39	70 587	
OTHER	851			592	160	432		16 357	
TOTAL-CONNORSVILLE	9 850			6 822	1 927	4 895		184 140	
CONRAD 005-15W4									
TOTAL-CONRAD	13			9		9		310	
COOKING LAKE 052-22W4									
TOTAL-COOKING LAKE	171			108	9	99		3 617	
CORAL 046-05W5									
TOTAL-CORAL	235			156		156		5 814	
CORBETT 061-07W5									
VIKING A	551	0.90	0.05	471	440	31	39	1 196	1 662
OTHER	296			195	14	181		6 964	
TOTAL-CORBETT	847			666	454	212		8 160	
CORDEL 042-16W5									
TV 042-16	1 420	0.50	0.15	603		603	39	23 294	400
TV 042-16	2 063	0.50	0.15	878		878	39	33 917	800
TOTAL-CORDEL	3 483			1 481		1 481		57 211	
CORNER 080-09W4									
TOTAL-CORNER	64			31		31		1 162	
CORNWALL 070-26W5									
TOTAL-CORNWALL	71			54		54		2 047	
CORRIN 061-13W4									
TOTAL-CORRIN	1 384			697	111	586		21 371	
COSWAY 030-26W4									
TOTAL-COSWAY	195			126	49	77		3 031	
COUNTESS 020-16W4									
MILK RIVER A	8 857	0.70	0.05	5 890			36		77 352
MEDICINE HAT A	11 296	0.70	0.03	7 670			36		105 159
MEDICINE HAT C	214	0.50	0.03	104			36		6 613
MEDICINE HAT D	124	0.50	0.03	60			36		4 304
SECOND WHITE SPECKS A	705	0.80	0.05	536			36		5 363
SE ALTA GAS SYS (MU) TOTAL	21 196	0.70	0.05	14 260	1 060	13 200	36	481 404	
BOW ISLAND A	1 079	0.65	0.05	666	526	140	37	5 209	7 559
BASAL COLORADO A	5 170	0.91	0.05	4 470	4 327	143	37	5 280	14 468
UPPER MANNVILLE D SOLN	556	0.52	0.25	217			37		

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
5.86	0.250	0.50	5 340	27	0.902	0.59	755.3	1952	1987	CMG PRODUCTION DECLINE
12.19	0.120	0.85	20 820	68	0.867	0.71	2 288.1	1956	1979	PROGAS BER NONCOMMERCIAL OIL
2.44	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
2.56	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	PART OF MED HAT POOL NO.1
2.23	0.210	0.65	7 570	36	0.872	0.60	926.3	1956	1983	PROGAS PANALTA CWNUGUL VECTOR CNG TCPL
6.17	0.170	0.60	9 260	29	0.796	0.66	1 064.7	1963	1980	PANALTA VECTOR TCPL MATERIAL BALANCE
2.70	0.200	0.45	9 310	40	0.850	0.61	1 102.5	1964	1982	PART OF ELRSL POOL NO.1
1.85	0.250	0.65	9 340	29	0.826	0.61	1 073.8	1975	1984	PART OF ELRSL POOL NO.1
11.30	0.190	0.60	9 690	42	0.821	0.66	1 069.7	1976	1976	PART OF ELRSL POOL NO.1
2.90	0.100	0.70	9 220	35	0.816	0.65	1 131.9	1987	1988	PART OF ELRSL POOL NO.1
3.68	0.172	0.55	9 720	35	0.796	0.67	1 116.7	1963	1988	PART OF ELRSL POOL NO.1
								1963	1988	PROGAS PANALTA VECTOR POCO TCPL PART OF ELRSL POOL NO.1
2.06	0.200	0.55	8 270	44	0.856	0.64	1 024.2	1971	1982	TCPL MATERIAL BALANCE
13.00	0.089	0.75	29 520	106	0.978	0.63	3 828.2	1979	1989	A&S TCPL BER TOP/BASE TVD
16.38	0.056	0.80	29 700	100	0.974	0.63	3 584.5	1979	1989	A&S TCPL BER TOP BASE TVD
4.52	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
2.49	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1989	PART OF MED HAT POOL NO.1
0.82	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1989	PART OF MED HAT POOL NO.3
0.73	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1988	PART OF MED HAT POOL NO.4
1.70	0.216	0.60	5 690	27	0.904	0.56	737.9	1944	1987	PART OF 2WS POOL NO.1
1.66	0.183	0.60	7 310	31	0.873	0.59	888.7	1904	1988	PROGAS PANALTA POCO TCPL KANNGAZ
1.19	0.182	0.70	8 470	37	0.868	0.60	1 062.4	1951	1988	TCPL
						0.63		1951	1980	TCPL MATERIAL BALANCE
								1967	1989	TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
COUNTLESS 020-16W4 (CONTINUED)									
UPPER MANNVILLE D ASSOC	417	0.75	0.10	282b	469b	30	37	1 118	437
UPPER MANNVILLE S	460	0.80	0.05	350	294	56	39	2 172	665
GLAUCONITIC III	1 875	0.80	0.10	1 350			39		6 068
UPPER MANNVILLE LL	70	0.75	0.10	48			39		150
GLAUC III&U MANN LL TOTAL	1 945	0.80	0.10	1 398	621	777	39	30 101	
OTHER	7 392			4 459	1 629	2 830		106 905	
TOTAL-COUNTLESS	38 215			26 102	8 926	17 176		632 189	
COUTTS 001-16W4									
TOTAL-COUTTS	139			89		89		3 345	
COWLICK (SA) 058-06W6									
TOTAL-COWLICK	104			74		74		2 609	
COYOTE 028-15W4									
TOTAL-COYOTE	797			512	219	293		11 251	
CRAIGEND 064-13W4									
VIKING A	9 473	0.40	0.05	3 600	14	3 586	37	132 288	71 292
GRAND RAPIDS A	989	0.70	0.05	657	398	259	37	9 650	8 180
GRAND RAPIDS H	483	0.75	0.05	344	134	210	37	7 818	252
GRAND RAPIDS P	580	0.65	0.05	358	144	214	37	7 850	1 052
MCMURRAY C	1 578	0.60	0.05	900	612	288	37	10 564	14 299
GROSMONT A	5 613	0.45	0.05	2 400	2 207	193	37	7 162	36 190
OTHER	8 046			4 961	2 065	2 896		107 449	
TOTAL-CRAIGEND	26 762			13 220	5 574	7 646		282 781	
CRAIGMYLE 032-17W4									
BELLY RIVER A	1 306	0.80	0.05	993	387	606	37	22 161	8 646
OTHER	2 182			1 388	496	892		33 827	
TOTAL-CRAIGMYLE	3 488			2 381	883	1 498		55 988	
CRANBERRY 096-04W6									
BLSK-DETR-DBLT A	2 587	0.70	0.05	1 720	703	1 017	36	37 070	5 411
SLAVE POINT A	15 148	0.80	0.15	10 300	3 127	7 173	40	288 068	27 124
SLAVE POINT B	1 024	0.75	0.15	653	622	31	41	1 283	1 036
GLWD 096-04	618	0.80	0.10	444		444	38	17 023	797
OTHER	469			312		312		11 713	
TOTAL-CRANBERRY	19 846			13 429	4 452	8 977		355 157	
CRANFORD 008-19W4									
TOTAL-CRANFORD	113			74	69	5		173	
CRESSDAY (SA) 003-01W4									
TOTAL-CRESSDAY	62			45		45		1 665	
CROOKED 069-23W4									
TOTAL-CROOKED	571			368	42	326		12 096	
CROSSFIELD 026-01W5									
BASAL QUARTZ A	1 543	0.92	0.19	1 150	981	169	40	6 750	4 175
BASAL QUARTZ C	1 831	0.70	0.15	1 090	560	530	40	20 951	763
BASAL QUARTZ G	475	0.90	0.15	364	261	103	41	4 215	150
RUNDLE A	31 235	0.92	0.13	25 000	21 582	3 418	40	136 993	13 449
RUNDLE B	31 096	0.92	0.21	22 600	20 467	2 133	40	85 448	8 584
RUNDLE F	2 103	0.85	0.15	1 520	1 060	460	40	18 510	1 654
RUNDLE H	444	0.90	0.15	340	328	12	40	479	200
RUNDLE I	649	0.85	0.15	469	398	71	40	2 847	431
ELTN 12-029-02	549	0.85	0.15	397		397	40	15 936	400
WABAMUN A	37 500	0.75	0.52	13 500	11 013	2 487	36	90 651	29 146
OTHER	4 954			1 550	407	1 143		45 535	
TOTAL-CROSSFIELD	112 379			67 980	57 057	10 923		428 315	
CROSSFIELD EAST 029-01W5									
BASAL QUARTZ A	374	0.90	0.10	303	97	206	38	7 898	631

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.45	0.268	0.65	11 000	35	0.819	0.63	1 049.8	1967	1989	TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
3.69	0.240	0.75	10 420	49	0.841	0.64	1 279.2	1972	1986	TCPL KANNGAZ MATERIAL BALANCE
2.81	0.179	0.55	10 000	39	0.816	0.66	1 218.0	1954	1989	PART OF GLAUC POOL NO.6
6.90	0.150	0.40	10 000	38	0.817	0.65	1 218.3	1984	1986	PART OF GLAUC POOL NO.6
								1954	1988	TCPL PART OF GLAUC POOL NO.6
2.53	0.270	0.55	3 350	16	0.932	0.57	338.1	1949	1988	PROGAS PANALTA CWNGNUL VECTOR CNG TCPL PART OF VIK POOL NO.6
2.07	0.300	0.70	2 710	20	0.946	0.57	386.2	1962	1983	ESSO CWNGNUL TCPL
8.11	0.300	0.60	2 620	25	0.952	0.56	387.3	1969	1982	PANALTA MATERIAL BALANCE
6.90	0.295	0.80	2 420	18	0.952	0.56	369.2	1967	1986	PANALTA TCPL MATERIAL BALANCE
2.44	0.263	0.70	2 930	26	0.947	0.57	526.4	1953	1989	PANALTA CWNGNUL CNG TCPL MATERIAL BALANCE
9.90	0.105	0.55	2 830	25	0.948	0.56	501.1	1961	1989	CWNGNUL A&S TCPL PRODUCTION DECLINE
3.80	0.252	0.50	3 100	24	0.941	0.56	587.9	1951	1989	PROGAS PANALTA A&S SCEPTRE KANNGAZ TCPL ATCOR
7.86	0.172	0.30	5 500	30	0.907	0.58	750.0	1973	1987	PANALTA PART OF BLSKY-DETR-DBLT NO.1 MATERIAL BALANCE
5.78	0.069	0.70	21 270	90	0.833	0.83	2 231.2	1974	1989	PROGAS PANALTA ESSO
5.23	0.051	0.60	21 470	89	0.818	0.84	2 292.1	1980	1987	PROGAS AMOCO PRODUCTION DECLINE
4.07	0.130	0.55	19 550	82	0.885	0.64	2 320.9	1975	1979	PROGAS PANALTA
2.62	0.124	0.70	16 720	71	0.837	0.71	2 231.9	1957	1987	TCPL PRODUCTION DECLINE
5.53	0.113	0.65	17 190	70	0.847	0.68	2 114.2	1966	1988	TCPL PRODUCTION DECLINE
3.39	0.130	0.70	26 820	71	0.864	0.76	2 562.3	1965	1989	PRODUCTION DECLINE
11.75	0.115	0.90	22 900	81	0.875	0.71	2 560.7	1956	1988	A&S TCPL MATERIAL BALANCE PREVIOUS GAS CYCLING
20.72	0.084	0.85	21 110	71	0.830	0.76	2 263.7	1957	1988	TCPL MATERIAL BALANCE
8.20	0.111	0.75	22 720	83	0.874	0.72	2 503.6	1970	1986	A&S MATERIAL BALANCE
12.65	0.115	0.90	22 900	79	0.861	0.75	2 560.3	1961	1989	A&S TCPL PRODUCTION DECLINE
9.39	0.087	0.60	20 880	80	0.865	0.70	2 325.0	1972	1987	TCPL PRODUCTION DECLINE
7.05	0.116	0.80	22 020	75	0.858	0.71	2 520.0	1978	1988	PROGAS KANNGAZ
9.30	0.057	0.85	25 030	74	0.752	0.87	2 590.8	1954	1985	TCPL PRODUCTION DECLINE
2.41	0.154	0.80	19 890	60	0.852	0.63	2 305.8	1964	1987	TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
CROSSFIELD EAST 029-01W5 (CONTINUED)									
ELKTON A SOLN	207	0.60	0.20	99b			41		
ELKTON A ASSOC	1 756	0.90	0.12	1 390b	1 323b	166	41	6 781	964
ELKTON D SOLN	516	0.60	0.25	233b			42		
ELKTON D ASSOC	1 675	0.95	0.12	1 400b	1 215b	418	42	17 539	625
ELKTON C	859	0.85	0.10	657	544	113	40	4 554	440
WABAMUN A	33 333	0.80	0.55	12 000	9 714	2 286	37	83 439	24 085
WABAMUN B	1 091	0.75	0.45	450	243	207	39	8 054	3 316
OTHER	1 052			647	174	473		18 860	
TOTAL-CROSSFIELD EAST	40 863			17 179	13 310	3 869		147 125	
CROW (SA) 004-12W4									
TOTAL-CROW	24			16		16		567	
CRYSTAL 046-03W5									
VIKING A SOLN	1 343	0.43	0.15	490	228	262	42	10 876	
VIKING J	992	0.75	0.10	670	220	450	40	17 964	1 889
OTHER	814			486		486		19 575	
TOTAL-CRYSTAL	3 149			1 646	448	1 198		48 415	
CULP 079-24W5									
DBLT 078-24	558	0.90	0.10	452		452	38	17 113	1 160
OTHER	1 073			763		763		29 618	
TOTAL-CULP	1 631			1 215		1 215		46 731	
CUTBANK 064-09W6									
TOTAL-CUTBANK	860			597		597		23 448	
CUTPICK (SA) 060-06W6									
TOTAL-CUTPICK	77			56		56		2 242	
CYGNET 037-28W4									
TOTAL-CYGNET	2 875			1 785	207	1 578		63 634	
CYN-PEM 051-11W5									
ELLERSLIE A	357	0.85	0.10	273			41		929
ROCK CREEK A	1 852	0.75	0.10	1 250			39		3 403
ROCK CREEK A	119	0.75	0.10	80			39		200
ROCK CREEK H	93	0.70	0.10	59			40		200
ELRS A& RK CREEK A&H TOTAL	2 421	0.75	0.10	1 662	434	1 228	40	48 604	
OTHER	2 422			1 248	125	1 123		44 743	
TOTAL-CYN-PEM	4 843			2 910	559	2 351		93 347	
CYPRESS (SA) 007-02W4									
TOTAL-CYPRESS	13			8		8		290	
CZAR 041-05W4									
TOTAL-CZAR	446			285		285		10 562	
DALEHURST 053-23W5									
TOTAL-DALEHURST	78			56		56		2 172	
DALEMEAD (SA) 022-26W4									
TOTAL-DALEMEAD	353			235		235		8 995	
DAPP 062-26W4									
TOTAL-DAPP	86			59	44	15		560	
DARWELL (SA) 054-05W5									
TOTAL-DARWELL	29			19		19		702	
DARWIN 094-18W5									
TOTAL-DARWIN	485			237		237		8 876	
DAVEY 034-27W4									
BELLY RIVER A	520	0.75	0.05	371	344	27	37	1 004	3 846
OTHER	1 296			746	84	662		24 420	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
10.33	0.062	0.80	20 860	77	0.840	0.74	2 268.9	1960	1989	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
						0.74		1960	1989	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
						0.76		1961	1989	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
10.16	0.106	0.85	20 910	77	0.824	0.76	2 307.9	1961	1989	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
14.89	0.090	0.80	19 140	77	0.849	0.70	2 313.1	1968	1989	TCPL PRODUCTION DECLINE
9.57	0.056	0.85	24 990	83	0.722	0.99	2 668.7	1960	1986	PROGAS PANALTA TCPL MATERIAL BALANCE
8.90	0.063	0.85	24 890	74	0.741	0.91	2 647.8	1959	1981	TCPL MATERIAL BALANCE
5.32	0.134	0.75	10 160	70	0.858	0.75 0.67	1 600.5	1978 1976	1989 1989	PROGAS TCPL KANNGAZ UNIGAS PSR
4.98	0.146	0.50	12 590	51	0.835	0.64	1 154.1	1973	1989	A&S
2.46	0.117	0.80	16 890	77	0.823	0.71	2 249.6	1974	1988	
4.58	0.093	0.75	17 500	76	0.837	0.71	2 248.9	1973	1989	
5.00	0.100	0.70	16 590	69	0.809	0.75	2 238.3	1987	1989	
3.96	0.110	0.65	16 890	79	0.834	0.72	2 213.2	1979 1973	1989 1989	
3.69	0.170	0.65	4 090	43	0.931	0.61	1 121.1	1974	1985	PROGAS CWNGNUL KANNGAZ TCPL MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
DAVEY 034-27W4 (CONTINUED)									
TOTAL-DAVEY	1 816			1 117	428	689		25 424	
DAWN (SA) 080-26W5									
TOTAL-DAWN	11			5		5		194	
DAWSON 080-16W5									
TOTAL-DAWSON	413			257		257		9 559	
DEADMAN (SA) 082-19W4									
TOTAL-DEADMAN	32			17		17		646	
DEADWOOD 091-23W5									
TOTAL-DEADWOOD	119			79	49	30		1 073	
DEANNE 038-11W5									
TOTAL-DEANNE	360			251	69	182		7 452	
DECRENE 071-02W5									
CLEARWATER A	886	0.80	0.05	674	219	455	37	17 017	3 475
CLEARWATER B	769	0.80	0.05	584	12	572	38	21 593	4 996
OTHER	815			516	150	366		13 567	
TOTAL-DECRENE	2 470			1 774	381	1 393		52 177	
DEEP 065-03W5									
TOTAL-DEEP	74			49		49		1 846	
DEER 024-07W4									
TOTAL-DEER	604			397		397		14 615	
DELIA 032-19W4									
BELLY RIVER A	1 442	0.70	0.05	959	629	330	37	12 134	6 149
OTHER	1 948			1 217	135	1 082		40 212	
TOTAL-DELIA	3 390			2 176	764	1 412		52 346	
DEMAY 048-19W4									
TOTAL-DEMAY	113			72	16	56		2 108	
DERWENT 054-07W4									
TOTAL-DERWENT	337			225	9	216		7 976	
DESMARAIS 080-25W4									
TOTAL-DESMARAIS	73			45		45		1 679	
DETLOFF 081-10W6									
TOTAL-DETLOFF	65			44		44		1 710	
DEVENISH 075-08W4									
TOTAL-DEVENISH	74			38		38		1 384	
DEVIL 071-15W5									
TOTAL-DEVIL	67			45		45		1 693	
DEWBERRY 053-04W4									
TOTAL-DEWBERRY	233			164		164		6 008	
DICKINS (SA) 120-05W6									
TOTAL-DICKINS	17			12		12		439	
DIMSDALE 071-07W6									
PADDY A	2 210	0.80	0.05	1 680		1 680	38	64 109	1 608
PADY * 30-071-06	478	0.80	0.10	344		344	38	13 189	200
OTHER	194			141		141		5 526	
TOTAL-DIMSDALE	2 882			2 165		2 165		82 824	
DINA 045-01W4									
TOTAL-DINA	459			306		306		11 035	
DINANT 047-19W4									
TOTAL-DINANT	328			219	52	167		6 099	
DIVIDE 082-13W4									
TOTAL-DIVIDE	606			379	127	252		9 371	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.43 1.93	0.281 0.282	0.60 0.60	4 340 4 390	30 20	0.924 0.904	0.56 0.60	543.4 550.0	1976 1975	1989 1989	PANALTA A&S ATCOR PANALTA ATCOR
5.37	0.239	0.55	3 240	22	0.940	0.56	639.4	1976	1988	UNIGAS PANALTA ESSO A&S TCPL CEL PSR
7.45 12.90	0.211 0.217	0.85 0.80	10 490 10 630	57 56	0.879 0.861	0.58 0.61	1 369.1 1 348.6	1980 1986	1987 1988	PROGAS A&S SHELL ESSO AMOCO A&S AMOCO

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
DIXONVILLE 086-01W6									
BLUESKY A	700	0.70	0.05	466	363	103	37	3 791	905
BLUESKY B	104	0.70	0.05	69			37		2 145
GETHING A	815	0.80	0.05	619			37		2 521
BLUESKY B & GETHING A TOTAL	919	0.80	0.05	688	463	225	37	8 422	
OTHER	1 868			1 211	255	956		35 238	
TOTAL-DIXONVILLE	3 487			2 365	1 081	1 284		47 451	
DIZZY (SA) 121-20W5									
TOTAL-DIZZY	133			90		90		3 368	
DOBSON 029-09W4									
TOTAL-DOBSON	479			318	134	184		6 709	
DOE 081-12W6									
KISKATINAW A	456	0.85	0.05	369			38		387
KISKATINAW A	211	0.75	0.05	150			38		195
KISKATINAW A	113	0.65	0.05	69			38		579
KISKATINAW A TOTAL	780	0.80	0.05	588	226	362	38	13 850	
OTHER	186			131	25	106		4 007	
TOTAL-DOE	966			719	251	468		17 857	
DOIG 090-11W6									
TOTAL-DOIG	130			86		86		3 221	
DOLCY 041-04W4									
TOTAL-DOLCY	149			99		99		3 491	
DONALDA 041-18W4									
VIKING A		0.74	0.05				37		2 540
VIKING C		0.74	0.05				37		5 908
VIKING D		0.74	0.05				36		525
VIKING A, C & D TOTAL	622	0.75	0.05	437	414	23	37	847	
LOWER MANNVILLE G	405	0.80	0.05	308	4	304	38	11 452	1 765
OTHER	2 579			1 707	312	1 395		52 279	
TOTAL-DONALDA	3 606			2 452	730	1 722		64 578	
DORENLEE 043-20W4									
TOTAL-DORENLEE	203			127	57	70		2 575	
DORIS 063-06W5									
UPPER MANNVILLE A	497	0.85	0.10	380	7	373	40	14 778	771
OTHER	325			245	9	236		8 839	
TOTAL-DORIS	822			625	16	609		23 617	
DOSBURN (SA) 002-03W4									
TOTAL-DOSBURN	43			30		30		1 110	
DOUCETTE 078-02W5									
TOTAL-DOUCETTE	366			247		247		9 242	
DOWLING LAKE 032-15W4									
TOTAL-DOWLING LAKE	298			207	68	139		5 286	
DRIFTPILE (SA) 073-13W5									
TOTAL-DRIFTPILE	43			28		28		1 047	
DRIFTWOOD 077-22W4									
TOTAL-DRIFTWOOD	443			262		262		9 674	
DROWNED 076-23W4									
TOTAL-DROWNED	495			315	189	126		4 698	
DRUMHELLER 029-19W4									
MANNVILLE F SOLN	20	0.65	0.10	12b			39		
MANNVILLE F ASSOC	596	0.90	0.10	482b	296b	198	39	7 770	1 267
MANNVILLE G	401	0.85	0.10	307	126	181	39	7 023	842
MANNVILLE M	402	0.80	0.05	306	282	24	40	949	440
MANNVILLE W	485	0.80	0.10	349	298	51	38	1 959	440
MANNVILLE CC	667	0.80	0.10	481	154	327	38	12 544	1 914
OTHER	6 805			4 375	2 160	2 215		85 748	
TOTAL-DRUMHELLER	9 376			6 312	3 316	2 996		115 993	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.67 0.64 3.80	0.220 0.220 0.212	0.65 0.55 0.65	8 230 6 070 6 020	30 33 34	0.867 0.903 0.903	0.58 0.56 0.56	784.5 727.9 742.3	1972 1952 1952	1989 1986 1979 1986	PANALTA VECTOR TCPL PRODUCTION DECLINE PROGAS PANALTA CWNGNU
7.12 4.72 2.49	0.125 0.134 0.069	0.70 0.85 0.60	20 730 21 490 21 100	77 71 80	0.890 0.884 0.895	0.62 0.62 0.62	2 377.4 2 391.3 2 445.3	1965 1965 1965	1987 1987 1987	PROGAS
1.31 2.05 0.91	0.140 0.200 0.157	0.55 0.55 0.55	6 280 6 280 6 280	42 42 42	0.908 0.908 0.912	0.58 0.58 0.58	997.4 1 008.4 1 037.5	1960 1957 1960	1986 1986 1986	PRODUCTION DECLINE PRODUCTION DECLINE ESSO CNG TCPL TCPL
2.16	0.187	0.65	8 460	45	0.866	0.64	1 193.3	1986	1989	
3.87	0.240	0.70	9 000	39	0.828	0.64	982.4	1972	1975	PANALTA TCPL
2.76 2.80 2.47 4.70 2.64	0.204 0.226 0.170 0.227 0.198	0.75 0.70 0.65 0.70 0.65	9 990 9 550 9 380 9 770 9 970	40 37 38 39 52	0.815 0.815 0.810 0.836 0.851	0.65 0.65 0.66 0.62 0.64	1 285.8 1 208.8 1 340.2 1 246.0 1 305.9	1950 1950 1964 1969 1973 1976	1989 1989 1983 1989 1982 1983	TCPL CONCURRENT PRODUCTION TCPL CONCURRENT PRODUCTION TCPL TCPL PRODUCTION DECLINE POCO TCPL MATERIAL BALANCE UNIGAS PANALTA A&S METHON TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
DUAGH (SA) 055-23W4 TOTAL-DUAGH	15			10		10		367	
DUHAMEL 045-21W4 TOTAL-DUHAMEL	† 028			557	82	475		18 458	
DUNCAN 074-15W4 MCMURRAY F	969	0.65	0.05	599	404	195	37	7 244	22 792
GROSMONT B	2 871	0.55	0.05	† 500	† 181	319	37	11 774	19 562
OTHER	852			510	1	509		18 818	
TOTAL-DUNCAN	4 692			2 609	1 586	1 023		37 836	
DUNVEGAN 081-04W6 GETHING B	1 226	0.55	0.05	640	410	230	38	8 775	2 484
DEBOLT A	4 764	0.80	0.05	3 620			39		10 221
DEBOLT B	19 343	0.80	0.05	† 4 700			39		12 888
DEBOLT C	12 158	0.80	0.05	9 240			39		10 218
DEBOLT D	265	0.70	0.10	167			39		200
DEBOLT D	40	0.70	0.10	25			39		200
DEBOLT D	241	0.70	0.10	152			39		200
DEBOLT D	186	0.70	0.10	117			39		200
DEBOLT A,B,C & D TOTAL	36 997	0.80	0.05	28 021	15 328	12 693	39	490 077	
OTHER	5 413			3 790	745	3 045		115 904	
TOTAL-DUNVEGAN	43 636			32 451	16 483	15 968		614 756	
DUVERNAY 055-12W4 VIKING A	† 676	0.40	0.05	637			37		37 319
VIKING M	60	0.40	0.05	23			37		1 780
VIKING A & M TOTAL	† 736	0.40	0.05	660	172	488	37	18 012	
COLONY B	1 742	0.60	0.05	993	146	847	37	31 695	4 920
OTHER	5 028			3 430	856	2 574		95 802	
TOTAL-DUVERNAY	8 506			5 083	1 174	3 909		145 509	
DYBERG 044-23W4 TOTAL-DYBERG	449			307		307		† 1 516	
DYSON (SA) 018-05W5 TOTAL-DYSON	227			153		153		5 675	
EAGLE BUTTE 007-05W4 TOTAL-EAGLE BUTTE	443			314	23	291		10 704	
EAGLESHAM 077-25W5 DEBOLT A	548	0.75	0.10	370		370	39	14 426	742
DEBOLT E	92	0.75	0.10	62			39		200
DEBOLT G	306	0.90	0.10	248			39		402
DEBOLT E & G TOTAL	398	0.85	0.10	310	108	202	39	7 801	
WAB 32-077 ASSOC	544	0.80	0.10	392		392	33	12 826	200
WAB 34-077-25	777	0.85	0.15	561		561	33	18 777	200
OTHER	1 569			1 111	265	846		31 765	
TOTAL-EAGLESHAM	3 836			2 744	373	2 371		85 595	
EAGLESHAM NORTH 078-25W5 TOTAL-EAGLESHAM NORTH	436			285	65	220		7 956	
EARRING 083-08W6 TOTAL-EARRING	† 287			888	54	834		31 876	
ECONOMY (SA) 068-02W6 TOTAL-ECONOMY	52			35		35		1 353	
EDBERG 044-19W4 TOTAL-EDBERG	303			194	6	188		6 954	
EDGERTON 045-04W4 TOTAL-EDGERTON	† 234			830	331	499		† 7 807	
EDMONTON (SA) 053-25W4 TOTAL-EDMONTON	37			23		23		865	
EDRA (SA) 099-24W4 TOTAL-EDRA	105			70		70		2 442	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.88 9.89	0.283 0.120	0.40 0.30	2 030 2 050	27 27	0.963 0.963	0.57 0.57	535.3 576.9	1971 1972	1989 1988	PRODUCTION DECLINE
2.94 3.44 9.68 7.41 9.10 1.20 6.70 6.60	0.241 0.153 0.166 0.160 0.130 0.150 0.150 0.130	0.75 0.60 0.60 0.60 0.65 0.65 0.70 0.70	9 080 13 620 14 330 15 340 15 910 15 910 15 910 14 700	41 49 49 49 49 49 49 54	0.885 0.815 0.813 0.810 0.816 0.817 0.821 0.826	0.59 0.65 0.65 0.65 0.63 0.63 0.63 0.64	919.4 1 437.5 1 461.6 1 495.4 1 552.8 1 549.0 1 537.3 1 534.5	1971 1963 1963 1952 1972 1972 1972 1952	1989 1989 1989 1989 1989 1989 1989 1989	A&S PRODUCTION DECLINE DEEP CUT SL DEEP CUT SL DEEP CUT SL DEEP CUT SL TP/BS TVD, DPCT SL, ASWELL 13-12-80-3W6 DEEP CUT SL DEEP CUT SL, ASSIGNED WELL 1-29-80-2W6 DEEP CUT SL, ASSIGNED WELL 6-22-80-3W6 A&S DEEP CUT SL
0.89 0.95	0.242 0.205	0.50 0.50	3 930 3 290	18 17	0.921 0.933	0.57 0.58	477.0 435.3	1949 1953 1949	1989 1988 1988	PART OF VIK POOL NO.6 PART OF VIK POOL NO.6 PANALTA CWNGNUL TCPL KANNGAZ PART OF VIK POOL NO.6 PANALTA CWNGNUL KANNGAZ TCPL
3.92	0.270	0.75	4 300	25	0.920	0.57	532.6	1972	1984	
3.35 2.74 3.39	0.180 0.140 0.182	0.75 0.75 0.80	14 450 15 410 14 530	47 58 53	0.787 0.829 0.821	0.67 0.64 0.64	1 370.8 1 412.0 1 435.7	1959 1976 1952	1989 1982 1980	PANALTA CANOXY A&S
23.00 58.80	0.068 0.040	0.85 0.85	22 050 22 060	72 82	0.889 0.910	0.73 0.73	2 045.5 2 043.5	1952 1988 1988	1983 1988 1989	PANALTA CANOXY DIRECT AEC BER DIRECT CANOXY BER

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
EDSON 052-18W5									
CARDIUM C SOLN	1 231	0.65	0.25	600 ^b			42		
CARDIUM C ASSOC	2	0.75	0.15	2 ^b	317 ^b	285	42	11 910	200
CARDIUM K ASSOC	6	0.65	0.10	4			42		64
CARDIUM K SOLN	1 027	0.65	0.15	568			42		
CARDIUM I, K, P & AAA TOTAL	1 033	0.65	0.15	572	441	131	42	5 506	
CARD SD * 06-051-1B	481	0.90	0.10	390		390	40	15 522	400
VIKING A	847	0.85	0.10	648	620	28	40	1 114	440
VIKING B	3 704	0.75	0.10	2 500	976	1 524	39	59 985	5 314
VIKING D	1 765	0.85	0.10	1 350	877	473	39	18 537	1 319
GETHING A	6 750	0.80	0.05	5 130	3 939	1 191	40	47 783	4 029
ROCK CREEK A	544	0.90	0.10	441		441	41	17 953	200
ELKTON A		0.85	0.10				39		45 364
SHUNDA A		0.85	0.10				39		440
SHUNDA B		0.85	0.10				39		440
ELK A, SHUN A & B TOTAL	56 470	0.85	0.10	43 200	37 769	5 431	39	209 419	
BLUERIDGE B	1 799	0.85	0.15	1 300	288	1 012	39	39 094	3 338
OTHER	5 164			3 059	351	2 708		107 328	
TOTAL-EDSON	79 790			59 192	45 578	13 614		534 151	
EDWARD 060-16W4									
GRAND RAPIDS A	153	0.70	0.05	102			37		1 332
GRAND RAPIDS C	307	0.70	0.05	204			37		1 845
GRAND RAPIDS D	37	0.70	0.05	25			37		200
GRAND RAPIDS F	16	0.75	0.05	11			37		254
GRAND RAPIDS A, C, D & F TOTAL	513	0.70	0.05	342	225	117	37	4 376	
NISKU A	583	0.60	0.05	333	111	222	37	8 250	1 072
NISKU D	1 240	0.60	0.05	707	383	324	36	11 739	1 783
OTHER	4 246			2 761	995	1 766		66 047	
TOTAL-EDWARD	6 582			4 143	1 714	2 429		90 412	
ELIZA 055-08W4									
TOTAL-ELIZA	484			328		328		12 170	
ELK POINT 056-07W4									
TOTAL-ELK POINT	279			196	151	45		1 652	
ELKWATER (SA) 008-04W4									
TOTAL-ELKWATER	17			10		10		359	
ELLERSLIE 051-24W4									
TOTAL-ELLERSLIE	59			37	37				
ELLS (SA) 095-16W4									
TOTAL-ELLS	309			210		210		7 747	
ELLSCOTT 064-21W4									
TOTAL-ELLSCOTT	279			192	10	182		6 849	
ELMWORTH 070-11W6									
CADOTTE A	3 689	0.60	0.10	1 880	262	1 618	39	62 600	7 711
CADOTTE C	910	0.60	0.10	472	2	470	39	18 184	2 391
CADOTTE D	732	0.60	0.10	388	16	372	39	14 486	1 784
FALHER A-2	1 025	0.85	0.15	740			40		12 727
FALHER A-4	245	0.75	0.15	156			40		2 479
FALHER A-10	7 613	0.85	0.15	5 500			39		20 277
FALHER B-1	3 460	0.85	0.15	2 500			39		12 007
FALHER C-2	56	0.75	0.15	36			40		250
FALHER C-3	43	0.75	0.20	26			38		250
FALHER A2, 4, 10, B1C2&3 TOTAL	12 442	0.85	0.15	8 958	4 969	3 989	39	156 050	
FALHER A-1	10 284	0.85	0.15	7 430			39		34 068
FALHER A-5	379	0.70	0.15	225			39		3 849
FALHER A-7	252	0.85	0.15	182			39		2 199
FALHER A-16	32	0.75	0.15	20			39		500
FALHER B-3	3 709	0.85	0.15	2 680			39		9 630
FALHER B-4	5 273	0.85	0.15	3 810			39		13 542
FALHER B-5	16	0.75	0.20	10			41		128
FALHER B-14	212	0.85	0.15	153			39		794
FALHER B-15	57	0.75	0.05	41			38		250
FALHER D-2	892	0.85	0.10	682			39		2 876
FALHER D-3	32	0.75	0.15	20			39		250
FALHER MU NO. 1 TOTAL	21 138	0.85	0.15	15 253	7 803	7 450	39	293 307	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
0.13	0.040	0.85	15 910	68	0.765	0.78	1 940.7	1972	1989	TCPL A&S GPP
0.70	0.150	0.75	10 670	59	0.793	0.74	1 938.8	1972	1989	TCPL A&S GPP
						0.74		1972	1987	SOLN MU-CARDIUM I,K,P&AA
								1972	1987	SOLN MU-CARDIUM I,K,P&AA
								1972	1987	A&S TCPL
7.55	0.129	0.60	20 240	67	0.823	0.71	2 216.8	1976	1989	NRTHRGE
3.70	0.130	0.60	39 210	83	1.046	0.65	2 802.9	1974	1989	TCPL PRODUCTION DECLINE DEEP CUT SL
2.51	0.127	0.80	22 150	87	0.890	0.66	2 509.3	1973	1985	PANALTA ESSO TCPL MATERIAL BALANCE
3.77	0.167	0.85	21 540	87	0.895	0.63	2 453.3	1966	1989	NRTHRGE ESSO TCPL MATERIAL BALANCE
11.28	0.098	0.75	23 150	83	0.866	0.72	2 542.3	1963	1987	TCPL MATERIAL BALANCE
11.00	0.110	0.75	37 500	76	1.019	0.65	2 904.1	1977	1983	TCPL
6.25	0.104	0.90	26 600	102	0.951	0.65	2 840.1	1962	1984	PRODUCTION DECLINE
4.88	0.034	0.75	26 790	109	0.961	0.64	2 982.0	1964	1981	PRODUCTION DECLINE
4.88	0.040	0.80	26 810	103	0.955	0.64	3 027.7	1964	1981	PRODUCTION DECLINE
								1962	1981	TCPL
3.70	0.068	0.75	30 460	104	0.967	0.68	2 996.7	1978	1988	PROGAS TCPL CEL
1.51	0.325	0.60	3 740	22	0.927	0.57	531.2	1951	1982	
2.25	0.297	0.65	3 690	22	0.928	0.57	527.7	1951	1989	
2.40	0.290	0.70	3 790	30	0.933	0.58	539.4	1951	1989	
0.83	0.300	0.65	3 790	30	0.933	0.57	535.0	1951	1988	
								1951	1989	PROGAS TCPL
3.43	0.160	0.75	3 440	23	0.936	0.56	647.6	1972	1983	TCPL PRODUCTION DECLINE
16.70	0.155	0.80	3 430	23	0.937	0.57	670.6	1972	1985	AMOCO TCPL MATERIAL BALANCE
4.03	0.096	0.65	12 870	64	0.862	0.61	1 858.3	1970	1989	PANALTA AMOCO ESSO TCPL DEEP CUT SL
3.32	0.106	0.70	12 160	64	0.866	0.61	1 658.9	1978	1985	PANALTA TCPL DEEP CUT SL
4.38	0.095	0.70	12 700	64	0.858	0.62	1 793.6	1978	1986	PANALTA TCPL DEEP CUT SL
2.45	0.044	0.50	15 400	71	0.852	0.64	2 101.6	1977	1987	DEEP CUT SL
2.06	0.058	0.55	15 470	71	0.852	0.64	2 074.6	1978	1985	DEEP CUT SL
5.17	0.078	0.65	15 030	72	0.865	0.63	2 054.3	1977	1989	DEEP CUT SL NONCOMMERCIAL OIL
4.40	0.081	0.60	13 920	69	0.859	0.63	1 917.0	1955	1986	DEEP CUT SL
3.09	0.080	0.60	15 570	71	0.851	0.63	2 034.0	1977	1988	DEEP CUT SL
1.50	0.080	0.70	22 750	85	0.877	0.72	2 103.8	1978	1988	DEEP CUT SL
								1955	1988	PROGAS PANALTA AMOCO A&S HOME ESSO TCPL
										DEEP CUT SL
4.28	0.081	0.60	14 940	71	0.851	0.64	1 991.8	1970	1989	DEEP CUT SL
1.77	0.059	0.65	14 800	69	0.849	0.63	1 998.4	1976	1987	DEEP CUT SL
2.05	0.065	0.60	14 090	64	0.828	0.67	1 939.4	1978	1987	DEEP CUT SL
3.75	0.033	0.35	15 560	76	0.869	0.63	2 239.2	1980	1988	DEEP CUT SL
6.21	0.073	0.65	13 550	69	0.862	0.62	1 845.7	1978	1986	DEEP CUT SL
5.07	0.077	0.65	15 630	69	0.847	0.65	2 053.6	1976	1989	DEEP CUT SL
2.02	0.061	0.70	15 120	81	0.852	0.67	1 995.8	1979	1985	DEEP CUT SL
3.12	0.100	0.65	13 640	69	0.861	0.62	1 937.1	1955	1986	DEEP CUT SL
6.00	0.050	0.55	15 570	82	0.896	0.59	2 255.0	1980	1988	DEEP CUT SL
3.26	0.096	0.65	15 340	66	0.844	0.63	1 959.3	1976	1988	DEEP CUT SL
1.83	0.070	0.70	14 550	70	0.857	0.63	2 016.0	1978	1988	DEEP CUT SL
								1955	1988	PROGAS PANALTA AMOCO TCPL DEEP CUT SL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ELMWORTH 070-11W6 (CONTINUED)									
FALH 25-069-07	505	0.85	0.15	365		365	40	14 447	500
FALHER B-2	1 398	0.85	0.15	1 010	343	667	39	26 200	2 180
FALHER B-9	1 232	0.85	0.15	890	720	170	39	6 678	5 526
FALHER B-11	480	0.75	0.15	306	212	94	40	3 730	250
FALHER B-12	874	0.85	0.15	632	582	50	39	1 964	1 757
BLSK 070-06	1 005	0.80	0.20	643		643	40	25 566	1 191
BLSK 070-05	664	0.90	0.20	478		478	40	19 010	2 039
CADOMIN A	7 950	0.70	0.15	4 730	71	4 659	38	178 486	27 459
HALFWAY A	660	0.70	0.25	347		347	37	12 884	1 058
HALFWAY B	507	0.85	0.20	345	1	344	41	14 156	1 064
OTHER	13 613			8 596	661	7 935		310 733	
TOTAL-ELMWORTH	67 799			45 293	15 642	29 651		1 158 481	
ELNORA 035-22W4									
UPPER MANNVILLE A	610	0.75	0.05	435	333	102	38	3 846	4 004
OTHER	1 882			1 253	396	857		33 121	
TOTAL-ELNORA	2 492			1 688	729	959		36 967	
EMPRESS 024-02W4									
TOTAL-EMPRESS	255			183		183		6 665	
ENCHANT 014-16W4									
BOW ISLAND I	435	0.80	0.05	331	275	56	35	1 980	6 989
BASAL COLORADO A	780	0.85	0.05	630	574	56	38	2 102	4 375
UPPER MANNVILLE E	828	0.85	0.05	669	54	615	36	22 306	4 088
UPPER MANNVILLE L	499	0.90	0.10	404	41	363	37	13 391	1 830
UPPER MANNVILLE R	1 250	0.85	0.10	957	64	893	37	33 309	870
OTHER	5 697			3 881	1 246	2 635		94 035	
TOTAL-ENCHANT	9 489			6 872	2 254	4 618		167 123	
ENDIANG 035-16W4									
UPPER MANNVILLE B	508	0.65	0.05	314	178	136	38	5 164	608
OTHER	348			240	104	136		5 106	
TOTAL-ENDIANG	856			554	282	272		10 270	
ENDONA (SA) 006-09W4									
TOTAL-ENDONA	18			13		13		494	
ENTICE 028-24W4									
BELLY RIVER P	562	0.60	0.05	320	254	66	37	2 413	1 247
BELLY RIVER B	687	0.90	0.05	587			37		3 359
BELLY RIVER K	624	0.90	0.05	534			36		7 401
BELLY RIVER B & K TOTAL	1 311	0.90	0.05	1 121	960	161	37	5 881	
OTHER	1 055			565	311	254		9 222	
TOTAL-ENTICE	2 928			2 006	1 525	481		17 516	
ERITH 048-17W5									
TOTAL-ERITH	519			375		375		15 175	
ERSKINE 039-21W4									
BLAIRMORE		0.80	0.10				39		433
BLAIRMORE		0.80	0.10				38		851
BLAIRMORE TOTAL	1 175	0.80	0.10	846	628	218	39	8 443	
D-3 SOLN	537	0.65	0.50	175b			37		
D-3 ASSOC	840	0.85	0.15	607b	480b	302	37	11 114	1 106
OTHER	3 515			2 277	688	1 589		60 249	
TOTAL-ERSKINE	6 067			3 905	1 796	2 109		79 806	
ESTHER 031-02W4									
VIKING A ASSOC	1 448	0.80	0.05	1 100		1 100	37	40 843	9 508
UPPER MANNVILLE A	586	0.80	0.05	446	254	192	37	7 094	1 846
BANFF A	911	0.90	0.05	779	731	48	38	1 813	400
OTHER	3 014			2 058	727	1 331		49 875	
TOTAL-ESTHER	5 959			4 383	1 712	2 671		99 625	
ESTUARY 023-22W4									
TOTAL-ESTUARY	609			408	104	304		11 535	
ETHEL LAKE 065-03W4									
GRAND RAPIDS A	569	0.65	0.05	352	234	118	37	4 399	1 334

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
8.05	0.117	0.70	15 690	70	0.849	0.64	1 689.8	1979	1988	PROGAS DEEP CUT SL
5.27	0.118	0.70	15 150	69	0.855	0.62	1 874.8	1977	1986	TCPL DEEP CUT SL
4.03	0.062	0.60	15 290	69	0.855	0.62	2 127.6	1978	1987	TCPL DEEP CUT SL
5.52	0.080	0.70	14 890	80	0.866	0.64	1 977.0	1981	1989	TCPL MATERIAL BALANCE DEEP CUT SL
5.81	0.078	0.65	15 320	69	0.855	0.62	1 883.4	1979	1989	TCPL PRODUCTION DECLINE DEEP CUT SL
5.23	0.144	0.70	15 620	65	0.821	0.68	1 848.6	1979	1989	DEEP CUT SL
2.80	0.112	0.65	16 250	73	0.836	0.68	1 739.6	1981	1989	DEEP CUT SL
4.88	0.050	0.60	18 810	88	0.887	0.65	2 538.6	1977	1987	PROGAS PANALTA TCPL PART OF CDM POOL NO.1
4.73	0.080	0.65	29 750	89	0.921	0.70	2 642.0	1978	1980	DEEP CUT SL
2.95	0.112	0.70	24 130	101	0.891	0.73	2 317.5	1981	1988	TCPL BER
										PROGAS DEEP CUT SL
1.41	0.186	0.70	8 200	48	0.876	0.62	1 544.6	1969	1987	CNG TCPL
1.05	0.156	0.60	5 940	24	0.899	0.58	718.4	1972	1989	PANALTA AMOCO CWNGNUL SCEPTRE TCPL
1.46	0.199	0.70	8 800	30	0.826	0.65	875.7	1968	1989	TCPL MATERIAL BALANCE
1.26	0.202	0.65	10 820	32	0.824	0.63	996.6	1966	1988	PROGAS PANALTA ESSO TCPL NONCOMMERCIAL OIL
1.85	0.197	0.60	10 830	33	0.807	0.66	986.2	1966	1982	TCPL
9.09	0.176	0.70	11 130	32	0.809	0.64	1 001.2	1971	1989	PANALTA TCPL
2.89	0.192	0.60	7 880	34	0.857	0.62	1 162.8	1981	1989	A&S PRODUCTION DECLINE NONCOMMERCIAL OIL
5.71	0.230	0.60	2 960	35	0.952	0.57	741.4	1974	1985	CWNGNUL TCPL PRODUCTION DECLINE
7.14	0.214	0.60	2 960	30	0.948	0.58	791.6	1969	1988	MATERIAL BALANCE
2.93	0.208	0.55	3 240	29	0.942	0.58	821.9	1969	1988	PRODUCTION DECLINE
								1969	1988	CWNGNUL TCPL
2.87	0.130	0.60	9 650	55	0.854	0.65	1 353.3	1952	1980	PRODUCTION DECLINE
6.59	0.160	0.70	9 590	53	0.858	0.64	1 352.5	1952	1981	PRODUCTION DECLINE
						0.74		1952	1981	TCPL
9.41	0.063	0.80	15 340	60	0.818	0.74	1 631.6	1952	1986	GULF TCPL CONCURRENT PRODUCTION
								1952	1986	GULF TCPL CONCURRENT PRODUCTION
1.81	0.214	0.55	6 470	24	0.869	0.61	695.9	1969	1989	POCO MIP
2.08	0.270	0.70	7 450	27	0.875	0.57	752.8	1969	1989	MATERIAL BALANCE
5.81	0.190	0.70	8 130	29	0.855	0.59	849.8	1957	1986	
3.73	0.274	0.70	2 080	14	0.956	0.56	354.9	1966	1989	PRODUCTION DECLINE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
ETHEL LAKE 065-03W4 (CONTINUED)									
OTHER	72			40	16	24		883	
TOTAL-ETHEL LAKE	641			392	250	142		5 282	
ETZIKOM 006-08W4									
BOW ISLAND A	1 909	0.75	0.05	1 360	1 301	59	37	2 159	10 266
OTHER	251			175	27	148		5 234	
TOTAL-ETZIKOM	2 160			1 535	1 328	207		7 393	
EUREKA (SA) 088-03W6									
TOTAL-EUREKA	95			60		60		2 285	
EVANSBURG (SA) 053-07W5									
TOTAL-EVANSBURG	139			99		99		3 796	
EVERGREEN (SA) 113-23W5									
TOTAL-EVERGREEN	9			5		5		185	
EVI 087-13W5									
TOTAL-EVI	5			4		4		148	
EWING LAKE 037-21W4									
TOTAL-EWING LAKE	327			166	88	78		2 851	
EXCELSIOR 056-24W4									
TOTAL-EXCELSIOR	911			605	339	266		10 085	
EXPANSE (SA) 088-04W6									
TOTAL-EXPANSE	132			88		88		3 275	
EYEHILL 041-06W4									
TOTAL-EYEHILL	123			79		79		2 800	
EYREMORE 018-18W4									
BOW ISLAND A	578	0.80	0.05	439	296	143	36	5 161	2 780
OTHER	1 168			784	144	640		23 505	
TOTAL-EYREMORE	1 746			1 223	440	783		28 666	
FAIRYDELL-BON ACCORD 057-24W4									
UPPER VIKING A	1 152	0.95	0.04	1 050			38		12 246
MIDDLE VIKING A	3 070	0.95	0.04	2 800			38		9 556
MIDDLE VIKING B	560	0.95	0.04	511			38		1 865
U VIK A & M VIK AB TOTAL	4 782	0.95	0.05	4 361	3 392	969	38	36 483	
BASAL MANNVILLE A ASSOC	514	0.90	0.10	417	155	262	37	9 807	1 039
BASAL MANNVILLE C SOLN	96	0.65	0.05	59b			36		
BASAL MANNVILLE C ASSOC	604	0.90	0.10	490b	416b	133	36	4 807	296
OTHER	771			454	96	358		13 453	
TOTAL-FAIRYDELL-BON ACCORD	6 767			5 781	4 059	1 722		64 550	
FAITH (SA) 003-12W4									
TOTAL-FAITH	105			75		75		2 749	
FARMINGTON 080-11W6									
KISKATINAW A	952	0.85	0.05	769	324	445	37	16 683	400
OTHER	494			352	37	315		11 939	
TOTAL-FARMINGTON	1 446			1 121	361	760		28 622	
FARRELL 034-16W4									
TOTAL-FARRELL	320			218	84	134		4 985	
FARROW 020-24W4									
TOTAL-FARROW	718			461	24	437		16 751	
FAWCETT (SA) 075-21W4									
TOTAL-FAWCETT	34			19		19		708	
FENN WEST 036-20W4									
TOTAL-FENN WEST	1 495			928	226	702		27 247	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.05	0.196	0.65	5 550	25	0.896	0.59	680.6	1951	1967	PWGE CTYMEDH MATERIAL BALANCE
2.61	0.172	0.55	7 830	29	0.876	0.57	953.0	1953	1986	PANALTA TCPL
1.46	0.240	0.50	5 110	27	0.902	0.59	800.5	1947	1989	PART OF VIK POOL NO.1
3.23	0.200	0.60	5 820	25	0.886	0.60	809.8	1947	1989	PART OF VIK POOL NO.1 MATERIAL BALANCE
2.79	0.200	0.60	5 820	37	0.897	0.60	778.1	1947	1984	PART OF VIK POOL NO.1 MATERIAL BALANCE
5.52	0.180	0.70	7 070	43	0.895	0.63	1 028.4	1951	1989	PANALTA CWNGNUL PART OF VIK POOL NO.1
6.22	0.215	0.75	7 310	42	0.887	0.63	1 055.0	1965	1989	CWNGNUL CONCURRENT PRODUCTION
										PANALTA TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
11.85	0.159	0.70	21 510	93	0.926	0.59	2 315.1	1977	1989	PANALTA

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
FENN-BIG VALLEY 035-20W4									
BELLY RIVER J	495	0.65	0.05	306	194	112	36	4 035	2 259
VIKING B	819	0.80	0.10	590	544	46	39	1 789	8 105
D-2 A ASSOC	49	0.75	0.30	26			42		65
D-2 A SOLN	6 160	0.64	0.55	1 774			42		
D-2 A ASSOC	28	0.75	0.30	15			42		78
D-2 A ASSOC	35	0.75	0.30	18			42		53
D-2 A ASSOC	251	0.75	0.30	132			42		190
D-2 A ASSOC	134	0.75	0.30	71			42		199
D-2 A TOTAL	6 657	0.65	0.55	2 036	1 678	358	42	14 872	
OTHER	1 978			1 121	301	820		30 896	
TOTAL-FENN-BIG VALLEY	9 949			4 053	2 717	1 336		51 592	
FENNER 032-14W4									
TOTAL-FENNER	157			101		101		3 704	
FERGUSON 003-17W4									
TOTAL-FERGUSON	30			21		21		799	
FERINTOSH 044-21W4									
TOTAL-FERINTOSH	636			396	189	207		7 775	
FERRIER 039-08W5									
CARDIUM D ASSOC		0.85	0.10				41		1 992
CARDIUM D SOLN	3 194	0.21	0.15	570b			41		
CARDIUM D ASSOC		0.85	0.10				40		1 791
CARDIUM D ASSOC		0.85	0.10				41		508
CARDIUM D ASSOC		0.85	0.10				41		1 266
CARDIUM D TOTAL	7 508	0.60	0.10	3 870b	3 731b	139	41	5 692	
CARDIUM E ASSOC	6 340	0.90	0.15	4 850b			41		4 761
CARDIUM E SOLN	6 197	0.17	0.20	842b			41		
CARDIUM E ASSOC	5 739	0.90	0.15	4 390b			41		4 523
CARDIUM E TOTAL	18 276	0.65	0.15	10 082b	8 167b	1 915	41	78 324	
CARDIUM G ASSOC	32	0.75	0.15	20			42		319
CARDIUM G SOLN	4 408	0.28	0.15	1 049			42		
CARDIUM G & L TOTAL	4 440	0.30	0.15	1 069	674	395	42	16 491	
CARDIUM Q	985	0.90	0.10	798			40		1 630
CARDIUM Z	327	0.85	0.10	250			40		314
CARDIUM Q & Z TOTAL	1 312	0.90	0.10	1 048	150	898	40	35 704	
CARDIUM FF	249	0.80	0.10	179			40		883
CARDIUM II	182	0.75	0.10	123			41		400
CARDIUM FF & II TOTAL	431	0.80	0.10	302	141	161	40	6 508	
CARDIUM N ASSOC	360	0.85	0.10	275b			41		440
CARDIUM N SOLN	786	0.65	0.15	434b			41		
CARDIUM B, N & VIK A TOTAL	1 146	0.70	0.15	709b	596b	113	41	4 610	
GLAUCONITIC B	580	0.88	0.10	459	245	214	40	8 513	256
PEK 02-043-10	501	0.75	0.20	301		301	39	11 601	200
OTHER	7 246			4 927	303	4 624		180 691	
TOTAL-FERRIER	41 440			22 767	14 007	8 760		348 134	
FERRYBANK 044-27W4									
BELLY RIVER C ASSOC	2 026	0.80	0.05	1 540b			37		7 639
BELLY RIVER C SOLN	532	0.65	0.50	173b			37		
BELLY RIVER G	4	0.60	0.05	2b			36		64
BELLY RIVER H	5	0.60	0.05	3b			36		64
BELLY RIVER C, G & H TOTAL	2 567	0.75	0.15	1 718b	821b	897	37	33 261	
VIKING A	1 248	0.60	0.20	599	185	414	46	19 007	8 392
GLAUCONITIC A	1 777	0.70	0.10	1 120	433	687	39	27 095	5 298
LOWER MANNVILLE I SOLN	12	0.65	0.10	7b			40		
LOWER MANNVILLE I ASSOC	497	0.80	0.10	358b	176b	189	40	7 554	612
LOWER MANNVILLE F	432	0.85	0.10	330	244	86	40	3 421	502
LOWER MANNVILLE S	1 041	0.85	0.10	797	236	561	40	22 210	1 842
LOWER MANNVILLE A		0.90	0.10				40		1 190
LOWER MANNVILLE B		0.90	0.10				40		1 214
LOWER MANNVILLE A & B TOTAL	765	0.90	0.10	620	581	39	40	1 546	
OTHER	3 305			2 311	766	1 545		60 993	
TOTAL-FERRYBANK	11 644			7 860	3 442	4 418		175 087	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
5.03 1.42	0.255 0.140	0.55 0.55	3 030 7 240	21 41	0.944 0.857	0.57 0.66	632.8 1 178.3	1951 1952	1989 1987	PART OF BR POOL NO.3 GULF PANALTA ESSO CWNGNUL TCPL PART OF VIK POOL NO.4 PRODUCTION DECLINE
4.48	0.118	0.85	12 750	48	0.668	0.94 0.94	1 597.1	1950 1950	1988 1988	
2.09	0.118	0.85	12 750	48	0.668	0.94	1 573.6	1950	1984	
3.89	0.118	0.85	12 750	48	0.668	0.94	1 596.7	1950	1984	
7.79	0.118	0.85	12 750	48	0.668	0.94	1 590.0	1950	1985	
3.96	0.118	0.85	12 750	48	0.668	0.94	1 778.4	1950 1950	1984 1988	GULF CWNGNUL
2.06	0.157	0.90	21 820	70	0.816	0.75 0.75	2 055.8	1963 1963	1986 1986	PRODUCTION DECLINE CONCURRENT PRODUCTION PRODUCTION DECLINE CONCURRENT PRODUCTION
1.86	0.177	0.90	21 820	70	0.819	0.75	2 035.0	1963	1984	PRODUCTION DECLINE
0.88	0.157	0.90	21 820	70	0.827	0.71	2 047.5	1963	1984	PRODUCTION DECLINE
1.55	0.104	0.75	21 820	70	0.833	0.70	2 026.7	1963 1963	1984 1989	PRODUCTION DECLINE ESSO TCPL CONCURRENT PRODUCTION
4.03	0.159	0.90	21 820	65	0.795	0.78 0.78	2 068.9	1965 1965	1987 1987	CONCURRENT PRODUCTION CONCURRENT PRODUCTION
3.84	0.159	0.90	21 820	65	0.795	0.78	2 059.8	1965	1987	
0.68	0.090	0.70	21 170	60	0.776	0.76 0.76	2 057.1	1966 1966	1984 1984	A&S TCPL CONCURRENT PRODUCTION SOLN MU-CARDIUM G&L SOLN MU-CARDIUM G&L A&S TCPL
2.86	0.125	0.80	22 000	73	0.856	0.68	2 247.1	1969	1984	
1.84	0.065	0.90	22 570	62	0.829	0.69 0.68	2 303.7	1975 1969	1983 1984	
1.72	0.091	0.75	24 110	63	0.851	0.67	2 314.7	1956	1987	PROGAS PANALTA NORCEN TCPL
3.65	0.099	0.75	16 460	70	0.813	0.70	2 274.8	1956 1956	1988 1987	
2.40	0.126	0.90	22 340	83	0.845	0.75 0.75	2 233.3	1955 1955	1989 1989	PROGAS PANALTA TCPL PRODUCTION DECLINE SOLN MU-CARDIUM B,N & VIK A, CONC PR PRODUCTION DECLINE SOLN MU-CARDIUM B,N & VIK A, CONC PR GPP
7.16	0.075	0.60	33 880	90	0.989	0.66	2 725.3	1955 1984	1989 1989	ESSO PRODUCTION DECLINE
12.80	0.110	0.80	24 360	78	0.887	0.68	2 914.2	1966	1982	PROGAS BER
3.73	0.200	0.55	5 600	35	0.904	0.60 0.60	905.3	1955 1955	1989 1989	MATERIAL BALANCE CONC PROD. SOLN MU - BELLY R C,G&H MATERIAL BALANCE CONC PROD. SOLN MU - BELLY R C,G&H
2.00	0.180	0.45	3 400	26	0.936	0.59	786.8	1986	1989	
1.90	0.200	0.45	4 110	27	0.924	0.59	857.9	1986	1989	
1.89	0.126	0.55	8 060	45	0.635	0.96	1 443.8	1955	1989	TCPL PANALTA CONCURRENT PRODUCTION
4.00	0.139	0.50	11 940	64	0.835	0.68	1 566.7	1955 1954	1981 1989	PROGAS PANALTA TCPL PWGE PROGAS PANALTA A&S TCPL METHON SOQUIP PART OF GLAUC POOL NO.3
4.79	0.191	0.70	12 490	65	0.828	0.68	1 667.4	1981	1989	A&S TCPL CONCURRENT PRODUCTION
2.39	0.160	0.80	12 710	45	0.775	0.70	1 587.7	1970	1984	A&S TCPL CONCURRENT PRODUCTION
3.35	0.169	0.75	12 450	63	0.792	0.77	1 618.4	1980	1989	TCPL MATERIAL BALANCE NONCOMMERCIAL OIL
2.36	0.204	0.75	13 340	63	0.803	0.73	1 710.3	1971	1985	A&S TCPL
2.25	0.196	0.70	13 340	63	0.803	0.73	1 731.2	1971 1971	1985 1984	MATERIAL BALANCE MATERIAL BALANCE PANALTA TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
FIGURE LAKE 063-18W4									
UPPER MANNVILLE B		0.65	0.04				37		735
UPPER MANNVILLE Y		0.75	0.05				38		179
UPPER MANNVILLE CC		0.70	0.05				38		256
D-2 B		0.50	0.05				37		7 665
UPPER MANN B,Y,CC&D-2 TOTAL	2 515	0.65	0.05	1 570	1 342	228	37	8 525	
OTHER	4 176			2 680	815	1 865		69 687	
TOTAL-FIGURE LAKE	6 691			4 250	2 157	2 093		78 212	
FINDLEY 057-06W6									
NORD 057-06	624	0.85	0.15	451		451	38	16 944	528
OTHER	1 841			1 245		1 245		46 712	
TOTAL-FINDLEY	2 465			1 696		1 696		63 656	
FIR 058-21W5									
DUNV 07-060-22	633	0.90	0.10	513		513	40	20 576	200
GETHING A	1 075	0.75	0.10	725		725	39	28 087	2 443
JUR SYS 04-057-20	655	0.85	0.15	473		473	37	17 298	200
TRIASSIC C	9 974	0.80	0.07	7 420	2 963	4 457	38	170 079	22 527
D-3 A	3 556	0.45	0.25	1 200	522	678	37	25 188	1 080
D-3 B	921	0.85	0.25	587	20	567	37	21 064	128
LED 34-057-21	4 214	0.70	0.20	2 360		2 360	37	88 146	128
OTHER	2 815			1 800		1 800		69 539	
TOTAL-FIR	23 843			15 078	3 505	11 573		439 977	
FIRE 113-07W6									
TOTAL-FIRE	616			381	11	370		14 210	
FISHER 068-05W4									
TOTAL-FISHER	2 478			1 282	22	1 260		46 487	
FLAT 066-20W4									
WABISKAW-WABAMUN A		0.70	0.05				37		6 640
WABISKAW-WABAMUN A		0.70	0.05				37		8 138
WABISKAW-WABAMUN A TOTAL	5 564	0.70	0.05	3 700	2 613	1 087	37	40 110	
OTHER	1 429			936	222	714		26 454	
TOTAL-FLAT	6 993			4 636	2 835	1 801		66 564	
FLOOD 085-25W5									
TOTAL-FLOOD	257			159	81	78		2 901	
FLORENCE (SA) 068-04W5									
TOTAL-FLORENCE	14			9		9		332	
FLUME 062-05W5									
TOTAL-FLUME	38			28		28		1 095	
FOLEY LAKE (SA) 066-06W5									
TOTAL-FOLEY LAKE	113			86		86		3 324	
FOREMOST 006-11W4									
BOW ISLAND	566	0.93	0.05	500	432	68	36	2 466	6 038
OTHER	42			25	4	21		704	
TOTAL-FOREMOST	608			525	436	89		3 170	
FORESTBURG 042-15W4									
UPPER MANNVILLE R	832	0.75	0.05	593	46	547	37	20 195	1 446
OTHER	3 646			2 385	482	1 903		70 135	
TOTAL-FORESTBURG	4 478			2 978	528	2 450		90 330	
FORSYTH 062-06W4									
TOTAL-FORSYTH	827			528	38	490		18 149	
FORT ASSINIBOINE 062-04W5									
TOTAL-FORT ASSINIBOINE	404			280		280		10 828	
FORT KENT 061-04W4									
TOTAL-FORT KENT	1 331			827	478	349		12 980	
FORT SASKATCHEWAN 054-22W4									
UPPER VIKING A		0.85	0.03				36		3 055
MIDDLE VIKING A		0.85	0.03				36		12 842

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.75 1.60 1.42 7.13	0.251 0.258 0.319 0.175	0.65 0.70 0.75 0.60	3 540 3 410 3 410 3 540	19 19 19 24	0.929 0.931 0.931 0.935	0.56 0.57 0.57 0.56	543.1 534.8 542.8 678.6	1958 1987 1987 1955 1955	1988 1988 1988 1989 1988	PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE METHON ESSO TCPL
7.82	0.112	0.55	28 530	77	0.945	0.61	2 375.8	1975	1988	CANOXY BER TOP/BASE TVD
10.80 3.52 16.60 2.28	0.165 0.103 0.120 0.106	0.85 0.75 0.85 0.75	21 510 18 130 21 650 22 940	76 92 81 100	0.839 0.873 0.899 0.937	0.73 0.71 0.71 0.61	2 128.7 2 642.9 2 735.3 2 660.0	1976 1972 1980 1972	1978 1981 1980 1987	PROGAS TCPL PROGAS PROGAS PANALTA A&S TCPL MATERIAL BALANCE DEEP CUT SL PROGAS PANALTA TCPL KANNGAZ PSR PROGAS PANALTA A&S
24.74 42.00 197.03	0.067 0.080 0.082	0.85 0.90 0.85	30 710 31 170 33 380	117 115 121	0.958 0.960 1.005	0.69 0.69 0.66	3 353.2 3 372.8 3 518.5	1974 1980 1988	1985 1989 1989	
3.54 13.29	0.220 0.226	0.60 0.35	3 340 3 380	27 27	0.939 0.939	0.57 0.57	567.9 573.9	1956 1956 1956	1988 1988 1988	MATERIAL BALANCE MATERIAL BALANCE TCPL
1.52	0.200	0.80	4 830	27	0.918	0.57	692.5	1923	1981	CWNGNUL MATERIAL BALANCE
3.96	0.243	0.75	7 610	35	0.881	0.59	1 050.6	1982	1989	TCPL
0.80 6.43	0.210 0.210	0.60 0.60	5 550 5 550	33 33	0.905 0.905	0.60 0.60	780.9 780.9	1917 1917	1982 1982	PART OF VIK POOL NO.2 MATERIAL BALANCE PART OF VIK POOL NO.2 MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
FORT SASKATCHEWAN 054-22W4 (CONTINUED)									
U VIK A & M VIK A TOTAL	9 096	0.85	0.05	7 500	7 496	4	36	145	
OTHER	266			172	3	169		6 278	
TOTAL-FORT SASKATCHEWAN	9 362			7 672	7 499	173		6 423	
FORTY MILE 007-09W4									
LOWER MANNVILLE E	2 080	0.85	0.05	1 680	1 017	663	36	24 113	6 468
OTHER	757			534	94	440		15 834	
TOTAL-FORTY MILE	2 837			2 214	1 111	1 103		39 947	
FOSTER (SA) 033-27W4									
TOTAL-FOSTER	185			126		126		4 979	
FOURTH 082-09W6									
TOTAL-FOURTH	618			414		414		15 659	
FOX CREEK 061-18W5									
VIKING A	4 519	0.90	0.10	3 660	2 683	977	39	38 347	6 794
GETHING D ASSOC	177	0.70	0.05	118b			39		150
GETHING D SOLN	39	0.65	0.30	18b			39		
GETHING H ASSOC	5 909	0.75	0.05	4 210b			39		
GETHING D & H TOTAL	6 125	0.75	0.05	4 346b	744b	3 602	39	139 974	10 031
OTHER	2 762			1 475	299	1 176		46 000	
TOTAL-FOX CREEK	13 406			9 481	3 726	5 755		224 321	
FRANCIS 073-22W4									
WABAMUN A	516	0.65	0.05	318		318	37	11 776	440
OTHER	410			264		264		9 754	
TOTAL-FRANCIS	926			582		582		21 530	
FRANCIS SOUTH 072-21W4									
TOTAL-FRANCIS SOUTH	148			89		89		3 050	
FRENCH (SA) 064-01W5									
TOTAL-FRENCH	158			112		112		4 187	
FURNESS (SA) 048-23W4									
TOTAL-FURNESS	75			52		52		1 993	
GADSBY 037-19W4									
BELLY RIVER J	2 526	0.65	0.05	1 560	500	1 060	37	38 997	10 233
OTHER	1 375			905	260	645		23 822	
TOTAL-GADSBY	3 901			2 465	760	1 705		62 819	
GAGE 082-03W6									
TOTAL-GAGE	601			413		413		15 539	
GALAHAD 040-15W4									
TOTAL-GALAHAD	975			631	1	630		22 554	
GAMBLER 070-21W4									
TOTAL-GAMBLER	1 141			687	177	510		18 999	
GARDEN PLAINS 033-13W4									
TOTAL-GARDEN PLAINS	461			306	155	151		5 711	
GARDNER (SA) 090-18W5									
TOTAL-GARDNER	31			22		22		800	
GARRINGTON 034-04W5									
VIKING A ASSOC	408	0.70	0.10	257b			39		4 699
VIKING A SOLN	741	0.65	0.15	410b			39		
VIKING A ASSOC	17	0.60	0.10	9b			39		200
VIKING A ASSOC	15	0.55	0.10	7b			39		200
VIKING A ASSOC	11	0.55	0.10	5b			39		200
VIKING A ASSOC	15	0.55	0.10	7b			39		200
VIKING A ASSOC	18	0.60	0.10	10b			39		128
VIKING A TOTAL	1 225	0.65	0.15	705b	183b	522	39	20 489	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
								1917	1982	CWNGNUL KANNGAZ PART OF VIK POOL NO.2
2.27	0.196	0.65	10 070	30	0.850	0.58	932.8	1965	1989	PANALTA CWNGNUL TCPL KANNGAZ
3.67	0.144	0.60	10 160	60	0.846	0.67	1 712.7	1957	1989	GULF A&S TCPL MATERIAL BALANCE
11.00	0.140	0.55	14 810	75	0.870	0.64	1 980.6	1957	1987	PART OF GETHING POOL NO.1 CONC PROD, SOLN MU-GETH D&H
						0.64		1957	1987	PART OF GETHING POOL NO.1 CONC PROD, SOLN MU-GETH D&H
5.22	0.131	0.65	14 110	75	0.870	0.63	1 941.2	1957	1989	PART OF GETHING POOL NO.1
								1957	1989	GULF PROGAS PANALTA TCPL A&S PART OF GETHING POOL NO.1 CONCURRENT PRODUCTION
23.75	0.250	0.80	2 420	20	0.952	0.57	548.6	1965	1983	BER
4.93	0.254	0.65	3 030	27	0.947	0.56	622.6	1951	1989	GULF CWNGNUL A&S POCO PART OF BR POOL NO.3
1.68	0.089	0.65	8 920	58	0.858	0.67	1 992.5	1977	1987	CONCURRENT PRODUCTION
1.82	0.084	0.65	8 920	63	0.866	0.67	2 133.3	1977	1987	CONCURRENT PRODUCTION
1.70	0.080	0.75	7 660	61	0.878	0.67	2 127.4	1977	1988	ASSIGNED WELL 14-32-034-03W5M
1.14	0.092	0.75	7 660	65	0.884	0.67	2 172.2	1977	1988	ASSIGNED WELL 06-30-035-03W5M
2.32	0.067	0.65	7 660	64	0.882	0.67	2 149.5	1977	1988	ASSIGNED WELL 10-13-035-04W5M
2.66	0.102	0.65	8 510	74	0.886	0.67	2 106.1	1977	1987	ASSIGNED WELL 01-25-035-04W5M
								1977	1987	ASSIGNED WELL 06-20-035-03W5M
										GULF UNIGAS PROGAS PANALTA ESSO VECTOR DEKALB TCPL PSR CONCURRENT PRODUCTION

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
GARRINGTON 034-04W5 (CONTINUED)									
VIKING P	524	0.85	0.10	401	200	201	40	8 084	400
MANNVILLE B SOLN	4 000	0.80	0.25	2 400	2 326	74	42	3 112	
MANNVILLE D SOLN	289	0.65	0.25	141b			41		
MANNVILLE D ASSOC	962	0.80	0.10	693b	609b	225	41	9 198	2 345
MANNVILLE R	200	0.75	0.10	135			40		250
LOWER MANNVILLE ZZ	521	0.85	0.15	377			41		250
MANN R & L MANN ZZ TOTAL	721	0.80	0.15	512	10	502	41	20 512	
ELKTON E	1 440	0.85	0.15	1 040	770	270	40	10 868	986
WABAMUN A SOLN	1 753	0.65	0.33	763b			39		
WABAMUN A ASSOC	8 709	0.85	0.33	4 960b	4 442b	1 281	39	49 421	13 888
LEDUC D SOLN	97	0.65	0.30	44b			40		
LEDUC D ASSOC	769	0.80	0.25	461b	20b	485	40	19 255	128
LED 10-035-04	837	0.80	0.20	536		536	40	21 177	200
OTHER	12 768			7 560	1 424	6 136		247 656	
TOTAL-GARRINGTON	34 094			20 216	9 984	10 232		409 772	
GARTH 064-06W4									
TOTAL-GARTH	438			265	57	208		7 747	
GARTLEY 031-18W4									
TOTAL-GARTLEY	571			365	96	269		10 158	
GATOR 118-03W6									
TOTAL-GATOR	115			73		73		2 770	
GAYFORD 026-25W4									
TOTAL-GAYFORD	1 294			754	364	390		14 403	
GENESEE 050-03W5									
TOTAL-GENESEE	536			373		373		14 475	
GEORGE 082-05W6									
KISKATINAW D	785	0.85	0.10	600	344	256	39	9 928	2 334
OTHER	736			506	28	478		18 069	
TOTAL-GEORGE	1 521			1 106	372	734		27 997	
GERE 062-08W5									
TOTAL-GERE	107			73		73		2 792	
GERMAIN (SA) 085-22W4									
TOTAL-GERMAIN	27			13		13		479	
GHOST PINE 031-22W4									
UPPER MANNVILLE V SOLN	144	0.65	0.10	85b			40		
UPPER MANNVILLE V ASSOC	287	0.80	0.05	219b	113b	191	40	7 560	444
UPPER MANNVILLE Q ASSOC	657	0.80	0.10	473b			40		1 129
UPPER MANNVILLE Y		0.75	0.10				40		6 935
UPPER MANNVILLE FF		0.75	0.10				40		8 320
UPPER MANN Q, Y & FF TOTAL	5 862	0.75	0.10	4 073b	2 530b	1 543	40	61 504	
UPPER MANNVILLE XX	392	0.85	0.10	300			40		523
LOWER MANNVILLE Q	53	0.70	0.10	33			38		150
U MANN XX & L MANN Q TOTAL	445	0.85	0.10	333	40	293	40	11 641	
UPPER MANNVILLE C		0.75	0.10				40		2 351
UPPER MANNVILLE U		0.85	0.10				39		971
UPPER MANNVILLE ZZZ		0.85	0.10				40		467
LOWER MANNVILLE A ASSOC		0.75	0.10				40		368
LOWER MANNVILLE A SOLN	40	0.60	0.20	19b			40		
LOWER MANNVILLE H ASSOC		0.75	0.10				40		150
URREP&LOWER MANN MU#1 TOTAL	1 739	0.85	0.10	1 319b	1 184b	135	40	5 399	
UPPER MANNVILLE H		0.75	0.10				39		1 366
UPPER MANNVILLE P ASSOC		0.75	0.10				40		6 432
UPPER MANN YYY		0.75	0.10				40		1 589
LOWER MANNVILLE R	50	0.75	0.10	34			40		150
LOWER MANNVILLE EE	35	0.75	0.10	23			37		150
U&L MANNVILLE MU.NO.2 TOTAL	4 889	0.75	0.10	3 300	2 791	509	40	20 151	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
4.76	0.134	0.75	20 830	73	0.852	0.66 0.77 0.72	2 364.3	1979 1963 1968	1988 1988 1988	ESSO KANNGAZ MATERIAL BALANCE CWNGNUL A&S TCPL GULF PROGAS PANALTA ESSO TCPL CONCURRENT PRODUCTION GULF PROGAS PANALTA ESSO TCPL CONCURRENT PRODUCTION
2.00	0.109	0.75	27 750	78	0.896	0.72	2 437.8	1968	1988	
3.60	0.129	0.85	20 550	73	0.834	0.71	2 505.9	1979	1989	
9.60	0.119	0.85	21 300	74	0.813	0.76	2 536.1	1979 1979 1979	1989 1989 1989	PROGAS ESSO GULF PROGAS ESSO DIRECT AMOCO GULF PROGAS PANALTA TCPL MATERIAL BALANCE CONCURRENT PRODUCTION GULF PROGAS PANALTA TCPL MATERIAL BALANCE CONCURRENT PRODUCTION GULF CONCURRENT PRODUCTION GULF CONCURRENT PRODUCTION TOP/BASE TVD
6.78	0.115	0.85	24 530	85	0.884	0.73 0.77	2 631.7	1983 1952	1988 1985	
8.47	0.048	0.80	24 720	74	0.856	0.77	2 644.4	1952	1985	
45.00	0.068	0.85	25 510	89	0.868	0.77	2 966.3	1985	1988	
35.50	0.070	0.90	20 590	93	0.855	0.78	3 136.7	1985	1989	
2.10	0.143	0.75	14 630	61	0.834	0.65	1 460.8	1973	1987	A&S TCPL
3.64	0.214	0.75	10 410	55	0.817	0.71	1 488.6	1956	1987	TCPL CONCURRENT PRODUCTION, OIL DEPLETED
4.54	0.182	0.65	10 340	55	0.828	0.68	1 466.8	1967	1987	TCPL CONCURRENT PRODUCTION, OIL DEPLETED
2.26	0.161	0.55	10 570	57	0.833	0.68	1 507.9	1966	1987	MATERIAL BALANCE
2.56	0.193	0.60	10 570	57	0.833	0.68	1 491.6	1961	1987	MATERIAL BALANCE
4.28	0.205	0.80	10 400	58	0.837	0.67	1 503.9	1975	1987	TCPL CONCURRENT PRODUCTION
2.78	0.160	0.70	10 220	48	0.800	0.74	1 522.8	1976	1988	
1.75	0.175	0.60	10 640	50	0.807	0.68	1 395.7	1964	1987	PRODUCTION DECLINE
5.92	0.199	0.65	10 640	50	0.827	0.66	1 415.5	1964	1987	PRODUCTION DECLINE CONCURRENT PRODUCTION
1.10	0.179	0.50	10 640	50	0.807	0.69	1 412.8	1965	1987	PRODUCTION DECLINE CONCURRENT PRODUCTION
1.43	0.180	0.45	10 620	52	0.826	0.67	1 408.3	1965	1989	MATERIAL BALANCE SOLN MU - UM C,U,ZZ&LM A&H, CONC PROD MATERIAL BALANCE SOLN MU - UM C,U,ZZ&LM A&H, CONC PROD
0.61	0.160	0.50	10 620	45	0.808	0.67	1 456.6	1971	1983	MATERIAL BALANCE
1.49	0.205	0.70	10 450	50	0.829	0.66	1 377.5	1964	1987	TCPL CONCURRENT PRODUCTION
2.17	0.203	0.60	10 450	50	0.817	0.68	1 393.4	1962	1987	PRODUCTION DECLINE
1.72	0.180	0.55	10 450	50	0.817	0.68	1 437.5	1952	1987	PRODUCTION DECLINE GPP
4.50	0.130	0.50	10 350	45	0.810	0.67	1 404.5	1982	1988	PRODUCTION DECLINE
1.22	0.220	0.70	10 340	26	0.794	0.66	1 356.9	1966	1989	
								1952	1987	TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
GHOST PINE 031-22W4 (CONTINUED)									
LOWER MANNVILLE B SOLN	25	0.60	0.10	140			40		
LOWER MANNVILLE B ASSOC	494	0.80	0.10	3560	2750	95	40	3 820	902
LOWER MANNVILLE F	551	0.90	0.10	446	425	21	40	835	783
PEKISKD G	772	0.92	0.04	682	624	58	39	2 284	586
OTHER	10 433			6 497	2 815	3 682		143 275	
TOTAL-GHOST PINE	25 641			17 324	10 797	6 527		256 469	
GILBY 041-03W5									
CARDIUM C	609	0.85	0.15	440	21	419	41	16 990	2 882
UPPER MANNVILLE E	527	0.80	0.15	358	5	353	40	14 060	150
BASAL MANNVILLE D	1 911	0.80	0.15	1 300	1 014	286	41	11 677	1 150
BASAL MANNVILLE W	523	0.65	0.10	306	143	163	41	6 639	150
BASAL MANNVILLE A		0.85	0.15				40		2 369
JURASSIC D		0.85	0.15				41		861
BSL MANN A & JUR D TOTAL	9 688	0.85	0.15	7 000	4 236	2 764	41	111 997	
BASAL MANNVILLE H		0.85	0.10				41		2 800
BASAL MANNVILLE L ASSOC		0.85	0.10				40		200
JURASSIC-RUNDLE ASSOC		0.85	0.10				41		13 597
JURASSIC-RUNDLE SOLN	111	0.60	0.10	600			41		
BMN H&L, J-RUN&UMN A TOTAL	26 516	0.85	0.10	20 2600	16 6540	3 606	41	146 872	
JURASSIC B SOLN	1 058	0.31	0.20	2620			41		
JURASSIC B ASSOC	499	0.80	0.15	3390	3660	235	41	9 581	494
JURASSIC N	555	0.85	0.10	425	313	112	41	4 566	200
RUNDLE G	598	0.85	0.15	432		432	40	17 284	1 125
RUNDLE H	984	0.85	0.10	752	1	751	39	29 191	1 428
OTHER	8 373			5 122	1 088	4 034		159 498	
TOTAL-GILBY	51 841			36 996	23 841	13 155		528 355	
GILWOOD 073-18W5									
TOTAL-GILWOOD	414			249	53	196		7 296	
GIROUX LAKE 066-21W5									
TOTAL-GIROUX LAKE	724			460	22	438		16 817	
GIROUXVILLE (SA) 077-23W5									
TOTAL-GIROUXVILLE	59			42		42		1 573	
GIROUXVILLE EAST 077-22W5									
GETHING A	741	0.75	0.05	528	12	516	36	18 602	1 658
OTHER	587			405	102	303		11 396	
TOTAL-GIROUXVILLE EAST	1 328			933	114	819		29 998	
GLACIER 077-12W6									
TOTAL-GLACIER	774			545		545		21 137	
GLADYS 020-27W4									
WABAMUN A	1 500	0.50	0.20	600		600	37	22 386	2 983
OTHER	738			400	59	341		13 235	
TOTAL-GLADYS	2 238			1 000	59	941		35 621	
GLEICHEN 022-22W4									
MEDICINE HAT A	854	0.70	0.03	580			36		19 600
SE ALTA GAS SYS(MU) TOTAL	854	0.70	0.05	580	253	327	36	11 926	
GLAUCONITIC J	527	0.80	0.10	380	163	217	39	8 513	1 986
OTHER	261			165	26	139		5 164	
TOTAL-GLEICHEN	1 642			1 125	442	683		25 603	
GLEN PARK 049-27W4									
TOTAL-GLEN PARK	1 202			783	282	501		19 535	
GLENEVIS 055-04W5									
TOTAL-GLENEVIS	749			529	77	452		17 542	
GLOVER 075-09W4									
TOTAL-GLOVER	113			58		58		2 130	
GODIN 081-01W5									
TOTAL-GODIN	369			183		183		6 771	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
						0.68		1959	1988	TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
1.61	0.185	0.60	10 730	51	0.813	0.68	1 453.8	1959	1988	TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
5.34	0.200	0.55	10 650	52	0.826	0.66	1 471.0	1960	1981	TCPL PRODUCTION DECLINE
7.73	0.064	0.85	10 170	49	0.828	0.64	1 398.3	1962	1989	TCPL PRODUCTION DECLINE
1.01	0.096	0.85	19 380	48	0.764	0.72	1 774.8	1963	1982	CWNGNUL NORCEN A&S
9.40	0.270	0.85	15 860	70	0.808	0.73	2 118.2	1977	1989	CWNGNUL
7.80	0.107	0.80	15 510	70	0.821	0.72	2 045.5	1962	1987	KANNGAZ TCPL PRODUCTION DECLINE
3.70	0.140	0.70	13 040	68	0.817	0.74	2 137.0	1977	1989	TCPL PRODUCTION DECLINE
12.65	0.137	0.70	15 980	72	0.838	0.70	2 151.3	1956	1986	MATERIAL BALANCE
5.48	0.169	0.75	15 980	72	0.831	0.71	2 173.8	1956	1986	MATERIAL BALANCE
								1956	1986	TCPL
4.91	0.120	0.65	15 870	70	0.814	0.74	2 112.9	1956	1987	MATERIAL BALANCE
1.10	0.120	0.70	15 310	73	0.775	0.83	2 045.8	1959	1987	MATERIAL BALANCE
11.03	0.120	0.65	15 960	71	0.817	0.74	2 096.9	1955	1987	MATERIAL BALANCE CONCURRENT PRODUCTION
						0.74		1955	1987	MATERIAL BALANCE CONCURRENT PRODUCTION
								1955	1987	A&S TCPL CONCURRENT PRODUCTION
4.94	0.159	0.80	15 890	71	0.817	0.74	2 133.0	1958	1988	A&S TCPL CONCURRENT PRODUCTION
10.36	0.150	0.70	15 400	70	0.825	0.71	2 121.9	1953	1989	TCPL MATERIAL BALANCE
5.80	0.073	0.75	17 600	77	0.854	0.68	2 195.9	1961	1987	PROGAS ESSO TCPL
6.45	0.087	0.70	17 980	77	0.833	0.73	2 231.0	1963	1985	PROGAS POCO KANNGAZ TCPL SOQUIP
3.85	0.209	0.65	8 230	37	0.883	0.58	860.2	1980	1986	SOQUIP
5.03	0.051	0.85	22 900	66	0.833	0.79	2 521.8	1961	1989	TCPL KANNGAZ BER
1.01	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1988	PART OF MED HAT POOL NO.1
1.55	0.191	0.75	10 830	43	0.816	0.65	1 354.6	1904	1988	PROGAS PANALTA CEL KANNGAZ
								1963	1985	PROGAS TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
GOLD CREEK 067-05W6									
BLUESKY-GETHING A	2 256	0.70	0.05	1 500	1 227	273	40	10 906	7 673
CADOMIN B	689	0.70	0.10	434	175	259	40	10 259	812
WABAMUN A	3 600	0.50	0.35	1 170	755	415	39	16 090	1 230
WAB 34-069-05	† 021	0.75	0.15	651		651	36	23 677	400
WAB 34-069-05	511	0.70	0.15	304		304	37	11 382	200
OTHER	2 299			1 544	140	1 404		55 353	
TOTAL-GOLD CREEK	10 376			5 603	2 297	3 306		127 667	
GOLDEN 086-15W5									
TOTAL-GOLDEN	205			64	11	53		1 958	
GOLDEN SPIKE 051-27W4									
D-1 A	920	0.85	0.10	704	420	284	39	11 093	438
D-3 A SOLN	4 767	0.82	0.45	2 150 ^b			42		
D-3 A ASSOC		0.90	0.10		1 452 ^b	698	42	29 525	
OTHER	1 901			1 031	536	495		19 450	
TOTAL-GOLDEN SPIKE	7 588			3 885	2 408	1 477		60 068	
GOODFISH (SA) 091-09W5									
TOTAL-GOODFISH	106			66		66		2 464	
GOODRIDGE 061-02W5									
TOTAL-GOODRIDGE	556			369	60	309		11 769	
GOODWIN 059-13W5									
JURASSIC A	688	0.80	0.10	495		495	38	18 602	1 289
OTHER	424			247	32	215		8 551	
TOTAL-GOODWIN	1 112			742	32	710		27 153	
GOOSE RIVER 067-18W5									
VIKING A	533	0.85	0.05	430	26	404	37	15 057	2 356
BEAVERHILL LAKE A SOLN	2 083	0.43	0.40	538	417	121	41	5 020	
OTHER	22			13	-61	74		3 012	
TOTAL-GOOSE RIVER	2 638			981	382	599		23 089	
GOPHER (SA) 081-19W4									
TOTAL-GOPHER	39			19		19		674	
GORDONDALE 079-10W6									
PEACE RIVER	989	0.85	0.05	799			39		3 717
NOTIKWIN B	102	0.75	0.05	73			39		200
GETHING A	811	0.75	0.03	590			39		3 176
PEACE RIV, NOT B&GET A TOTAL	1 902	0.80	0.05	1 462	† 425	37	39	1 432	
GETHING B	515	0.67	0.05	328	328	< 1	38	-	150
OTHER	3 718			2 630	233	2 397		92 634	
TOTAL-GORDONDALE	6 135			4 420	1 986	2 434		94 066	
GRAHAM 079-04W4									
MCMURRAY B	843	0.50	0.05	401	185	216	37	7 998	3 031
OTHER	462			235	51	184		6 767	
TOTAL-GRAHAM	1 305			636	236	400		14 765	
GRAINDALE 026-01W4									
TOTAL-GRAINDALE	350			237	14	223		8 228	
GRAND FORKS 011-13W4									
TOTAL-GRAND FORKS	1 789			867	57	810		27 245	
GRANDE CACHE (SA) 059-08W6									
TOTAL-GRANDE CACHE	143			108		108		3 888	
GRANDE PRAIRIE 071-06W6									
TOTAL-GRANDE PRAIRIE	2 487			1 441	2	1 439		56 892	
GRANLEA 008-10W4									
BOW ISLAND A	† 362	0.85	0.05	† 100	881	219	36	7 834	5 029
OTHER	205			147	58	89		3 220	
TOTAL-GRANLEA	1 567			1 247	939	308		11 054	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.32	0.109	0.60	22 100	70	0.857	0.66	2 126.0	1964	1987	PROGAS A&S MATERIAL BALANCE
6.69	0.090	0.70	19 750	64	0.828	0.68	2 105.9	1966	1975	
17.47	0.069	0.85	35 600	99	0.974	1.11	3 344.6	1964	1987	A&S PRODUCTION DECLINE
12.05	0.101	0.85	33 870	110	1.019	0.69	3 188.8	1980	1982	PROGAS
12.00	0.100	0.85	34 180	111	1.011	0.70	3 233.3	1980	1982	PROGAS
6.15	0.090	0.80	10 890	53	0.833	0.69 0.86 0.86	1 384.7	1949 1949 1949	1970 1988 1988	ESSO MATERIAL BALANCE CWNGNUL CONC PROD, SEC GAS CAP, GAS CYCLING CWNGNUL CONC PROD, SEC GAS CAP, GAS CYCLING
4.99	0.200	0.40	14 030	69	0.872	0.65	1 784.0	1956	1975	TCPL
1.85	0.200	0.65	9 460	53	0.878	0.61 0.70	1 213.2	1964 1963	1978 1989	PANALTA TCPL TCPL
4.48	0.190	0.70	4 300	33	0.915	0.61	841.9	1952	1974	MATERIAL BALANCE
7.40	0.145	0.65	7 240	44	0.887	0.58	959.2	1957	1982	
3.38	0.120	0.70	10 150	42	0.845	0.60	1 291.7	1953	1971	MATERIAL BALANCE
9.87	0.120	0.70	12 470	43	0.834	0.59	1 325.3	1952 1957	1974 1989	PROGAS PANALTA
6.31	0.302	0.80	1 740	9	0.962	0.56	232.2	1976	1989	PANALTA TCPL
2.37	0.221	0.60	5 650	26	0.904	0.58	683.8	1971	1987	PANALTA CWNGNUL MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
GRANOR 083-18W4									
GROSMONT A	1 317	0.40	0.05	501	393	108	37	3 986	22 178
OTHER	122			62		62		2 127	
TOTAL-GRANOR	1 439			563	393	170		6 113	
GRANUM 011-26W4									
BOW ISLAND A	560	0.65	0.10	328	44	284	39	10 962	2 407
TOTAL-GRANUM	560			328	44	284		10 962	
GRASSLAND 067-19W4									
WABAMUN-WINTERBURN A	526	0.70	0.05	350	88	262	37	9 710	2 489
OTHER	1 045			653	341	312		11 568	
TOTAL-GRASSLAND	1 571			1 003	429	574		21 278	
GRASSY (SA) 067-21W5									
TOTAL-GRASSY	35			23		23		871	
GREENCOURT 059-09W5									
JURASSIC B	690	0.85	0.10	528	1	527	38	20 237	1 736
JURASSIC A	2 750	0.80	0.10	1 980 ^b			40		5 590
PEKISKO A ASSOC	2 787	0.55	0.10	1 380 ^b			40		2 643
PEKISKO A SOLN	123	0.60	0.15	63 ^b			40		
JURASSIC A&PEKISKO A TOTAL	5 660	0.65	0.10	3 423 ^b	3 260 ^b	163	40	6 496	
OTHER	671			468	142	326		12 686	
TOTAL-GREENCOURT	7 021			4 419	3 403	1 016		39 419	
GREENCOURT EAST 059-06W5									
JURASSIC A ASSOC	412	0.85	0.10	315	148	167	39	6 525	998
OTHER	257			173	19	154		5 918	
TOTAL-GREENCOURT EAST	669			488	167	321		12 443	
GREGG (SA) 049-25W5									
TOTAL-GREGG	136			92		92		3 498	
GREY (SA) 045-19W5									
TOTAL-GREY	181			129		129		4 887	
GRIMSHAW 083-23W5									
TOTAL-GRIMSHAW	153			112	24	88		3 288	
GRIST 073-09W4									
GRAND RAPIDS A	824	0.55	0.05	430		430	37	16 043	10 889
OTHER	80			46		46		1 699	
TOTAL-GRIST	904			476		476		17 742	
GRIZZLY 062-22W5									
TOTAL-GRIZZLY	701			506	102	404		16 026	
GROAT 057-16W5									
LEDUC A	1 175	0.50	0.35	382	46	336	36	12 251	614
OTHER	986			497		497		19 058	
TOTAL-GROAT	2 161			879	46	833		31 309	
GROUARD 075-15W5									
TOTAL-GROUARD	9			5		5		185	
GROUSE 074-12W4									
TOTAL-GROUSE	263			134		134		4 967	
GUNN 055-03W5									
TOTAL-GUNN	426			280	80	200		7 728	
GUTAH 099-07W6									
TOTAL-GUTAH	47			31		31		1 146	
HABAY (SA) 088-06W6									
TOTAL-HABAY	47			26		26		985	
HACKETT 035-17W4									
UPPER MANNVILLE G	557	0.60	0.10	301		301	39	11 619	300
LOWER MANNVILLE A	796	0.80	0.09	580	550	30	39	1 155	977
OTHER	824			541	301	240		9 141	
TOTAL-HACKETT	2 177			1 422	851	571		21 915	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
14.77	0.173	0.20	1 140	13	0.976	0.57	315.0	1976	1989	PANALTA KANNGAZ
5.13	0.120	0.65	5 850	47	0.894	0.65	1 667.3	1971	1983	CWNGNUL
4.50	0.250	0.65	2 910	29	0.949	0.56	546.9	1958	1986	PANALTA TCPL
4.89	0.132	0.55	11 240	61	0.855	0.65	1 481.5	1974	1987	PROGAS CWNGNUL KANNGAZ TCPL
6.42	0.128	0.50	11 680	60	0.840	0.66	1 441.2	1961	1985	PRODUCTION DECLINE
10.77	0.117	0.75	11 210	63	0.851	0.66	1 455.0	1961	1985	PRODUCTION DECLINE CONCURRENT PRODUCTION
						0.66		1961	1985	PRODUCTION DECLINE CONCURRENT PRODUCTION
										TCPL CONCURRENT PRODUCTION
2.72	0.205	0.65	10 720	50	0.829	0.66	1 227.8	1980	1989	PROGAS ATCOR OIL POOL DEPLETED
2.42	0.303	0.65	1 580	19	0.969	0.55	325.9	1979	1989	BER
12.80	0.075	0.85	26 890	104	0.865	0.94	3 056.9	1984	1989	PROGAS A&S
17.80	0.226	0.75	5 880	37	0.877	0.66	1 179.7	1988	1989	
8.24	0.180	0.70	8 400	41	0.837	0.67	1 169.5	1952	1989	PRODUCTION DECLINE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
HAIRY HILL 055-14W4									
COLONY W	1 900	0.72	0.05	1 300	1 162	138	37	5 109	1 781
COLONY X	954	0.65	0.05	589	523	66	37	2 469	1 941
D-2 B	571	0.75	0.05	407	407	< 1	37	-	1 046
CAMROSE A	682	0.85	0.05	551	528	23	37	858	4 004
OTHER	3 634			2 133	1 209	924		34 504	
TOTAL-HAIRY HILL	7 741			4 980	3 829	1 151		42 940	
HALKIRK 038-16W4									
UPPER MANNVILLE I ASSOC	321	0.70	0.10	203			38		348
UPPER MANNVILLE I SOLN	379	0.41	0.10	140			38		
UPPER MANNVILLE I ASSOC	23	0.70	0.10	14			38		150
UPPER MANNVILLE I TOTAL	723	0.55	0.10	357		357	38	13 491	
OTHER	1 387			871	229	642		23 209	
TOTAL-HALKIRK	2 110			1 228	229	999		36 700	
HALKIRK EAST 040-14W4									
TOTAL-HALKIRK EAST	676			443	13	430		15 290	
HALLIDAY 028-14W4									
TOTAL-HALLIDAY	108			77	22	55		2 055	
HAMBURG 095-11W6									
SLAVE POINT A	2 276	0.80	0.05	1 730	971	759	38	28 500	1 149
SLAVE POINT B	527	0.80	0.05	401	1	400	38	15 180	200
SL PT 096-12	657	0.90	0.10	532		532	40	21 291	736
OTHER	230			175		175		6 585	
TOTAL-HAMBURG	3 690			2 838	972	1 866		71 556	
HAMELIN CREEK 080-06W6									
TOTAL-HAMELIN CREEK	672			451	150	301		11 405	
HANDHILLS (SA) 029-17W4									
TOTAL-HANDHILLS	20			14		14		536	
HANGINGSTONE 084-09W4									
UPPER MANNVILLE A	2 915	0.65	0.05	1 800	111	1 689	37	62 577	30 634
OTHER	782			396		396		14 780	
TOTAL-HANGINGSTONE	3 697			2 196	111	2 085		77 357	
HANLAN 047-17W5									
CARDIUM A	555	0.90	0.15	425		425	41	17 217	200
CARD SD 03-046-17	485	0.90	0.05	415		415	39	16 347	200
WINTERBURN B	859	0.75	0.10	580	402	178	38	6 680	200
BEAVERHILL LAKE A	40 000	0.80	0.25	24 000	5 820	18 180	38	687 749	8 656
BEAVERHILL LAKE B	1 299	0.80	0.25	779	269	510	38	19 212	440
OTHER	832			544		544		21 709	
TOTAL-HANLAN	44 030			26 743	6 491	20 252		768 914	
HANNA 031-14W4									
UPPER MANNVILLE E	194	0.70	0.10	122			38		300
LOWER MANNVILLE F	940	0.80	0.10	677			39		2 807
U MANN E & L MANN F TOTAL	1 134	0.80	0.10	799	723	76	39	2 936	
LOWER MANNVILLE E	403	0.80	0.05	306	252	54	39	2 091	1 139
OTHER	1 202			786	83	703		26 460	
TOTAL-HANNA	2 739			1 891	1 058	833		31 487	
HARDY 076-05W4									
MCMURRY O	1 445	0.75	0.05	1 030	8	1 022	37	37 906	4 206
MCMURRAY A	869	0.50	0.05	413			37		9 192
MCMURRAY D	52	0.50	0.05	25			37		397
MCMURRAY E	1 477	0.50	0.05	702			37		7 717
MCMURRAY A,D & E TOTAL	2 398	0.50	0.05	1 140	428	712	37	26 600	
OTHER	1 716			916	82	834		31 044	
TOTAL-HARDY	5 559			3 086	518	2 568		95 550	
HARLECH (SA) 044-14W5									
TOTAL-HARLECH	204			146		146		5 899	
HARLEY 056-27W5									
LED 15-056-27	861	0.70	0.10	543		543	39	21 318	200
OTHER	92			67		67		2 673	
TOTAL-HARLEY	953			610		610		23 991	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
8.26	0.300	0.75	4 340	25	0.919	0.58	538.1	1954	1985	CWNGNUL TCPL MATERIAL BALANCE
5.40	0.290	0.70	4 190	27	0.923	0.57	561.3	1972	1985	CWNGNUL PCI TCPL PRODUCTION DECLINE
5.40	0.184	0.75	3 990	27	0.928	0.56	628.6	1964	1989	CWNGNUL TCPL PRODUCTION DECLINE
3.25	0.105	0.60	3 940	29	0.931	0.56	661.7	1973	1984	CWNGNUL TCPL PRODUCTION DECLINE
5.41	0.227	0.75	9 200	39	0.837	0.65	1 233.2	1985	1989	ASSIGNED WELL 14-35-37-17W4M
1.10	0.210	0.65	9 200	39	0.837	0.65	1 237.6	1985	1989	
13.56	0.085	0.85	26 240	109	0.966	0.61	2 534.7	1983	1986	SHELL
16.00	0.090	0.90	25 400	100	0.953	0.59	2 522.8	1988	1989	A&S ESSO
7.70	0.063	0.80	27 800	99	0.924	0.73	2 574.4	1985	1989	SHELL
3.58	0.336	0.70	1 130	18	0.977	0.56	303.3	1974	1989	NRTHSTR DEVNIC
9.56	0.140	0.85	26 130	79	0.865	0.78	2 653.6	1974	1976	PROGAS PANALTA
19.52	0.054	0.85	33 710	83	0.995	0.60	2 886.1	1978	1982	TCPL CNG
44.30	0.070	0.85	60 710	123	1.285	0.60	4 133.1	1980	1989	PANALTA MATERIAL BALANCE TOP/BASE TVD
22.10	0.085	0.90	43 810	144	1.093	0.72	4 625.0	1976	1988	PANALTA
18.52	0.064	0.90	43 840	138	1.096	0.71	4 774.3	1979	1989	PANALTA
2.60	0.250	0.65	9 470	36	0.828	0.64	1 127.4	1972	1986	MATERIAL BALANCE
1.66	0.192	0.80	9 490	37	0.824	0.64	1 151.5	1949	1988	PRODUCTION DECLINE
1.29	0.210	0.70	9 310	37	0.823	0.65	1 139.1	1949	1988	TCPL
								1972	1982	TCPL KANNGAZ MATERIAL BALANCE
7.49	0.310	0.80	1 790	13	0.962	0.56	309.0	1983	1989	PANALTA TRITON CANOXY
2.51	0.295	0.65	1 940	19	0.962	0.55	336.6	1979	1989	
3.12	0.288	0.70	1 970	10	0.956	0.56	386.1	1984	1989	
4.40	0.292	0.75	1 960	19	0.961	0.56	340.6	1984	1989	
								1979	1989	TRITON ICG BVI
33.53	0.060	0.80	44 110	144	1.125	0.71	4 635.0	1976	1980	CANOXY BER

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
HARMATTAN EAST 032-03W5 RUNDLE SOLN	5 624	0.37	0.30	1 457b			41a		
RUNDLE ASSOC	36 252	C	C	28 000b	16 123b	13 334	41a	545 761	19 341
OTHER	1 571			848	122	726		29 666	
TOTAL-HARMATTAN EAST	43 447			30 305	16 245	14 060		575 427	
HARMATTAN-ELKTON 031-04W5 RUNDLE B SOLN	18	0.65	0.30	8b			40		
RUNDLE B ASSOC	2 353	0.85	0.15	1 700b	1 019b	689	40	27 725	2 643
RUNDLE C SOLN	5 143	0.65	0.30	2 340b			41		
RUNDLE C ASSOC	31 326	C	C	23 300b	9 021b	16 619	41	674 565	7 020
RUNDLE A	2 400	0.25	0.14	516	452	64	39	2 486	849
D-3 A	13 400	0.28	0.79	788	683	105	36	3 761	4 527
OTHER	89			63		63		2 468	
TOTAL-HARMATTAN-ELKTON	54 729			28 715	11 175	17 540		711 005	
HARMON VALLEY (SA) 081-19W5 TOTAL-HARMON VALLEY	61			38		38		1 423	
HARD 101-03W6 BLUESKY A	3 094	0.50	0.05	1 470			37		46 428
BLUESKY A	4 526	0.70	0.05	3 010			36		26 539
BLUESKY A	28	0.70	0.05	19			36		718
BLUESKY A	653	0.70	0.05	434			36		6 557
BLUESKY A	4	0.55	0.05	2			36		200
BLUESKY A	5	0.55	0.05	3			36		200
BLUESKY A	5	0.65	0.05	3			36		200
BLUESKY A	5	0.70	0.05	4			36		200
BLUESKY A	13	0.50	0.05	7			36		200
BLUESKY A	8	0.70	0.05	6			37		200
BLUESKY A TOTAL	8 341	0.65	0.05	4 958	1 873	3 085	37	113 312	
OTHER	1 136			685	198	487		17 843	
TOTAL-HARD	9 477			5 643	2 071	3 572		131 155	
HARPER (SA) 097-24W4 TOTAL-HARPER	303			212		212		7 831	
HARTELL 019-02W5 TOTAL-HARTELL	364			77	77				
HARTMAN 067-04W5 TOTAL-HARTMAN	23			15		15		567	
HASTINGS 050-20W4 TOTAL-HASTINGS	327			217	113	104		3 925	
HAWK 097-20W5 TOTAL-HAWK	32			22		22		824	
HAYNES 038-24W4 TOTAL-HAYNES	206			118	12	106		4 037	
HAYS 013-14W4 AROS 25-012-15	633	0.85	0.25	404		404	35	14 164	400
OTHER	669			438		438		15 618	
TOTAL-HAYS	1 302			842		842		29 782	
HAYTER 041-01W4 TOTAL-HAYTER	457			327	13	314		11 265	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
9.14	0.088	0.73	23 600	85	0.840	0.82	2 521.3	1954	1987	PANALTA NORCEN DEKALB A&S TCPL CONCURRENT PRODUCTION, GAS CYCLING
						0.82		1954	1987	PANALTA NORCEN DEKALB A&S TCPL CONCURRENT PRODUCTION, GAS CYCLING
1.61	0.092	0.80	23 670	91	0.896	0.71	2 733.6	1960	1986	TCPL A&S PRODUCTION DECLINE CONCURRENT PRODUCTION, OIL DEPLETED
						0.71		1960	1986	TCPL A&S PRODUCTION DECLINE CONCURRENT PRODUCTION, OIL DEPLETED
21.20	0.105	0.90	25 030	94	0.873	0.71	2 673.0	1954	1983	PANALTA A&S TCPL CONCURRENT PRODUCTION, GAS CYCLING
8.63	0.124	0.80	24 790	75	0.887	0.71	2 780.4	1957	1987	TCPL PRODUCTION DECLINE
22.22	0.050	0.90	32 230	110	0.777	0.92	3 351.8	1961	1983	A&S TCPL MATERIAL BALANCE
2.46	0.210	0.40	3 100	19	0.936	0.57	335.3	1973	1987	PART OF BLSKY POOL NO.1
6.30	0.210	0.40	3 100	19	0.937	0.59	335.3	1973	1984	PART OF BLSKY POOL NO.1
1.43	0.210	0.40	3 100	19	0.937	0.59	335.3	1973	1982	PART OF BLSKY POOL NO.1
3.68	0.210	0.40	3 100	19	0.937	0.59	335.3	1973	1982	PART OF BLSKY POOL NO.1
0.90	0.160	0.40	3 080	30	0.945	0.59	638.7	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
1.20	0.160	0.40	3 130	30	0.944	0.59	637.7	1973	1982	06-10-104-05W6M
1.30	0.160	0.40	3 190	25	0.940	0.59	449.1	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
0.90	0.210	0.40	3 100	24	0.941	0.59	458.5	1973	1982	06-18-104-05W6M
4.70	0.210	0.40	1 730	27	0.968	0.59	570.3	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
1.85	0.180	0.40	3 100	30	0.944	0.59	577.3	1973	1982	10-28-104-05W6M
								1973	1987	PART OF BLSKY POOL NO.1 ASSIGNED WELL
										11-30-106-06W6M
										10-33-104-06W6M
										PANALTA CWNGNUL A&S TCPL PART OF BLSKY POOL NO.1
9.75	0.142	0.85	11 810	42	0.793	0.86	1 337.8	1985	1988	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE <small>10⁶m³</small>	POOL RECOVERY <small>frac</small>	SURFACE LOSS <small>frac</small>	INITIAL ESTABLISHED RESERVES <small>10⁶m³</small>	NET CUMULATIVE PRODUCTION <small>10⁶m³</small>	REMAINING ESTABLISHED RESERVES <small>10⁶m³</small>	GROSS HEAT VALUE <small>MJ/m³</small>	REMAINING ENERGY CONTENT <small>TJ</small>	
HEART LAKE 069-10W4 TOTAL-HEART LAKE	694			350	97	253		9 308	
HEART RIVER 077-16W5									
PADDY A	900	0.50	0.05	428	102	326	37	12 192	2 855
NOTIKEWIN	1 500	0.65	0.05	926	622	304	37	11 385	3 861
OTHER	178			119	37	82		3 052	
TOTAL-HEART RIVER	2 578			1 473	761	712		26 629	
HEATHDALE 027-08W4									
GLAUCONITIC F	892	0.75	0.05	636	2	634	38	23 813	1 667
OTHER	2 578			1 783	82	1 701		63 798	
TOTAL-HEATHDALE	3 470			2 419	84	2 335		87 611	
HECTOR 016-17W4									
UPPER MANNVILLE C	557	0.90	0.10	451	23	428	38	16 414	300
OTHER	588			422	71	351		13 234	
TOTAL-HECTOR	1 145			873	94	779		29 648	
HELDAR 058-07W5									
NORDEGG B	1 021	0.85	0.10	781	148	633	39	24 554	1 956
OTHER	896			606	4	602		23 610	
TOTAL-HELDAR	1 917			1 387	152	1 235		48 164	
HELICOPTER 102-08W6									
TOTAL-HELICOPTER	36			24		24		870	
HELMSDALE 026-06W4									
TOTAL-HELMSDALE	28			20	20				
HERCULES 051-23W4									
TOTAL-HERCULES	865			540	118	422		15 495	
HERRONTON 019-26W4									
BELLY RIVER A		0.80	0.05				36		7 664
BELLY RIVER B		0.80	0.05				36		2 491
BELLY RIVER A & B TOTAL	1 619	0.80	0.05	1 230	1 214	16	36	582	
OTHER	686			370	119	251		9 274	
TOTAL-HERRONTON	2 305			1 600	1 333	267		9 856	
HIGH PRAIRIE 074-16W5									
TOTAL-HIGH PRAIRIE	486			340		340		12 576	
HIGH RIVER (SA) 018-29W4									
TOTAL-HIGH RIVER	207			124		124		5 176	
HIGHLAND 029-02W4									
TOTAL-HIGHLAND	623			457		457		17 200	
HIGHVALE 051-04W5									
LOWER MANNVILLE A SOLN	455	0.47	0.15	182b			39		
LOWER MANNVILLE A ASSOC	243	0.75	0.10	164b	102b	244	39	9 443	1 139
NORDEGG D	19	0.80	0.10	14b			40		128
BANFF H SOLN	725	0.65	0.15	400b			42		
NORDEGG D & BANFF H TOTAL	744	0.65	0.15	414b	40b	374	42	15 674	
OTHER	3 571			2 310	233	2 077		80 971	
TOTAL-HIGHVALE	5 013			3 070	375	2 695		106 088	
HIGHWOOD (SA) 017-02W5									
TOTAL-HIGHWOOD	3			2		2		80	
HILL 085-11W6									
TOTAL-HILL	159			113	16	97		3 762	
HILLSDOWN 037-25W4									
TOTAL-HILLSDOWN	304			185	10	175		6 634	
HINES 086-03W6									
SPIRIT RIVER F	748	0.70	0.05	498	160	338	38	12 760	3 228
OTHER	1 526			951	374	577		21 565	
TOTAL-HINES	2 274			1 449	534	915		34 325	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.51 4.23	0.283 0.326	0.70 0.65	1 870 3 270	21 24	0.964 0.940	0.55 0.55	493.2 533.5	1952 1952	1989 1989	PANALTA UNOCAL MATERIAL BALANCE PANALTA AMOCO UNOCAL MATERIAL BALANCE
2.15	0.314	0.75	9 570	32	0.844	0.60	1 001.9	1983	1989	A&S TCPL CANST
17.65	0.154	0.50	11 820	35	0.799	0.64	1 081.7	1988	1989	TCPL ICG
4.34	0.169	0.60	11 160	50	0.828	0.66	1 264.1	1980	1989	UNIGAS PROGAS DIRECT
4.10 3.01	0.212 0.200	0.65 0.55	3 280 3 310	35 35	0.948 0.947	0.57 0.57	922.4 995.4	1973 1973 1973	1985 1984 1984	MATERIAL BALANCE MATERIAL BALANCE CWNGNUL
1.19 1.40	0.149 0.090	0.65 0.60	16 520 17 230	49 49	0.787 0.761	0.70 0.70 0.73 0.74	1 568.5 1 587.3	1976 1976 1985 1981 1985	1986 1986 1986 1986 1987	CONCURRENT PRODUCTION CONCURRENT PRODUCTION
3.99	0.315	0.65	2 860	29	0.949	0.56	609.9	1978	1988	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
HINTON 051-25W5 TOTAL-HINTON	514			244	190	54		2 053	
HOLBURN 050-01W5 TOTAL-HOLBURN	1 644			1 131	205	926		36 582	
HOLLOW 061-20W4 TOTAL-HOLLOW	368			228	76	152		5 749	
HOLMBERG 044-17W4 GLAUCONITIC E	612	0.75	0.10	413	150	263	38	10 005	1 060
GLAUCONITIC A	569	0.75	0.05	406			36		1 586
MANNVILLE D	180	0.70	0.10	113			37		300
GLAUC A & MANNVILLE D TOTAL	749	0.75	0.05	519	242	277	37	10 138	
OTHER	3 846			2 512	677	1 835		68 372	
TOTAL-HOLMBERG	5 207			3 444	1 069	2 375		88 515	
HOMEGLEN-RIMBEY 043-01W5 D-3 SOLN	2 459	0.50	0.20	984 ^b			38		
D-3 ASSOC	30 588	0.90	0.15	23 400 ^b	24 037 ^b	347	38	13 353	4 661
OTHER	1 372			855	170	685		27 463	
TOTAL-HOMEGLEN-RIMBEY	34 419			25 239	24 207	1 032		40 816	
HONDO 070-27W4 TOTAL-HONDO	94			65		65		2 345	
HONEYSUCKLE (SA) 046-26W4 TOTAL-HONEYSUCKLE	125			86		86		3 432	
HOOKER 015-29W4 LIV 05-015-29	711	0.70	0.20	398		398	37	14 873	200
OTHER	126			86		86		3 459	
TOTAL-HOOKER	837			484		484		18 332	
HOOLE 081-24W4 WABISKAW A	959	0.70	0.05	637	271	366	37	13 524	7 806
WABAMUN A	1 620	0.65	0.05	1 000			36		10 428
BLUERIDGE A	23	0.60	0.05	13			37		200
WABAMUN A&BLUERIDGE A TOTAL	1 643	0.65	0.05	1 013	67	946	36	34 151	
OTHER	244			148		148		5 450	
TOTAL-HOOLE	2 846			1 798	338	1 460		53 125	
HORSE (SA) 058-27W5 TOTAL-HORSE	244			158		158		6 261	
HORSEFLY LAKE 008-16W4 TOTAL-HORSEFLY LAKE	40			26		26		879	
HOSELAW 060-06W4 TOTAL-HOSELAW	193			122	44	78		2 870	
HOTCHKISS 094-01W6 BLSK-DETR-DBLT A		0.70	0.05				36		8 063
BLSK-DETR-DBLT A		0.70	0.05				37		300
BLSK-DETR-DBLT A TOTAL	4 316	0.70	0.05	2 870	2 620	250	37	9 238	
BLUESKY A	965	0.80	0.05	733			35		5 282
BLUESKY B	343	0.70	0.05	228			37		400
BLUESKY D	630	0.80	0.05	479			37		2 177
BLUESKY E	1 355	0.80	0.05	1 030			37		4 682
BLUESKY G	23	0.60	0.05	13			37		200
BLUESKY I	6	0.70	0.05	4			36		200
SHUNDA A	2 803	0.80	0.05	2 130			37		15 685
BLUESKY A,B & I TOTAL	6 125	0.80	0.05	4 617	3 267	1 350	35	47 750	
DEBOLT B	652	0.50	0.05	310	248	62	36	2 257	1 880
OTHER	719			461	127	334		12 460	
TOTAL-HOTCHKISS	11 812			8 258	6 262	1 996		71 705	
HOUSE 082-15W4 GROSMONT A	4 473	0.40	0.05	1 700	629	1 071	37	39 531	67 671

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
4.64 2.85 5.25	0.229 0.220 0.216	0.70 0.70 0.65	7 560 7 620 7 540	44 33 33	0.874 0.866 0.863	0.67 0.64 0.67	1 042.8 1 028.6 1 049.3	1970 1971 1977 1971	1986 1986 1986 1986	TCPL A&S ESSO A&S TCPL
52.52	0.075	0.90	19 530	82	0.843	0.77 0.77	2 387.5	1953 1953	1988 1988	GULF PROGAS A&S TCPL KANNGAZ PRODUCTION DECLINE CONCURRENT PRODUCTION GULF PROGAS A&S TCPL KANNGAZ PRODUCTION DECLINE CONCURRENT PRODUCTION
21.00	0.098	0.80	24 900	86	0.913	0.68	3 388.1	1980	1982	PROGAS BER
2.31 5.59 6.00	0.289 0.165 0.140	0.65 0.70 0.60	2 720 2 330 2 230	16 16 16	0.945 0.953 0.955	0.56 0.57 0.57	422.0 458.1 478.0	1967 1967 1967	1989 1989 1989	PROGAS PROGAS PANALTA
5.02 4.70	0.210 0.200	0.50 0.65	5 500 5 500	30 30	0.907 0.907	0.58 0.56	729.8 709.4	1973 1973	1989 1988	PART OF BLSKY-DETR-DBLT NO. 1 MATERIAL BALANCE PART OF BLSKY-DETR-DBLT NO. 1 MATERIAL BALANCE ASSIGNED WELL 10-20-094-01W6M PANALTA PART OF BLSKY-DETR-DBLT NO. 1
1.56 2.90 1.29 1.38 1.00 0.62 3.07	0.250 0.180 0.218 0.230 0.180 0.150 0.182	0.50 0.75 0.60 0.55 0.70 0.65 0.50	5 450 5 420 5 350 5 220 5 140 5 020 5 355	23 30 30 26 25 31 29	0.902 0.908 0.908 0.906 0.908 0.918 0.906	0.60 0.58 0.57 0.58 0.56 0.59 0.58	676.0 690.1 715.2 647.8 663.4 678.5 683.7	1971 1974 1974 1976 1977 1978 1975	1981 1986 1987 1987 1987 1988 1987	MATERIAL BALANCE PRODUCTION DECLINE MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE
4.39	0.230	0.60	5 460	27	0.904	0.58	688.5	1971 1972	1989 1984	PANALTA TCPL ESSO PANALTA
26.23	0.120	0.15	1 390	18	0.972	0.57	314.5	1973	1988	PANALTA ESSO

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
HOUSE 082-15W4 (CONTINUED)									
OTHER	268			141		141		4 829	
TOTAL-HOUSE	4 741			1 841	629	1 212		44 360	
HOWARD 079-05W6									
TOTAL-HOWARD	200			139		139		5 308	
HUDSON 030-02W4									
VIKING A	1 067	0.70	0.08	687	607	80	37	2 958	7 860
OTHER	1 489			1 031	63	968		35 945	
TOTAL-HUDSON	2 556			1 718	670	1 048		38 903	
HUNTER VALLEY 029-09W5									
RUNDLE A	2 844	0.75	0.25	1 600	776	824	38	30 925	1 117
TOTAL-HUNTER VALLEY	2 844			1 600	776	824		30 925	
HUSSAR 025-20W4									
BELLY RIVER A	391	0.80	0.05	297			37		4 984
BELLY RIVER D	281	0.80	0.05	214			37		3 699
BELLY RIVER E	4	0.80	0.05	3			37		128
BELLY RIVER F	21	0.80	0.05	16			37		250
BELLY RIVER A,D,E & F TOTAL	697	0.80	0.05	530	487	43	37	1 586	
MILK RIVER A	193	0.70	0.05	128			36		2 453
MEDICINE HAT A	4 344	0.70	0.03	2 950			36		63 330
BELLY RIVER C	58	0.55	0.05	30			37		646
SE ALTA GAS SYS (MU) TOTAL	4 595	0.70	0.05	3 108	296	2 812	36	102 582	
VIKING B	792	0.90	0.05	677	264	413	38	15 752	4 583
VIKING E	413	0.80	0.05	314	301	13	37	486	5 499
VIKING L	653	0.70	0.05	434	203	231	37	8 508	3 112
BASAL COLORADO A	584	0.90	0.05	500	370	130	37	4 802	6 752
BASAL COLORADO C	690	0.80	0.05	524	504	20	37	737	6 507
GLAUCONITIC B SOLN	105	0.65	0.15	58b			38		
GLAUCONITIC B ASSOC	609	0.90	0.10	493b	442b	109	38	4 188	1 329
GLAUCONITIC A ASSOC	2 367	0.92	0.10	1 960b			39		2 397
GLAUCONITIC A SOLN	572	0.65	0.25	279b			39		
GLAUCONITIC A ASSOC	351	0.92	0.10	290b			39		256
GLAUCONITIC A TOTAL	3 290	0.85	0.10	2 529b	1 341b	1 188	39	45 964	
GLAUCONITIC N	3 766	0.90	0.05	3 220	3 101	119	39	4 622	5 111
GLAUCONITIC P	673	0.85	0.05	543	484	59	40	2 331	150
GLAUCONITIC Q	712	0.90	0.10	577	563	14	40	555	617
GLAUCONITIC R	508	0.90	0.10	412	400	12	40	478	150
GLAUCONITIC FF	555	0.80	0.05	422	375	47	39	1 829	200
GLAUCONITIC JJ	1 324	0.65	0.10	775	305	470	39	18 448	6 004
GLAUCONITIC III	567	0.80	0.10	409	139	270	39	10 571	2 012
OSTRACOD F	764	0.90	0.10	619	56	563	40	22 261	3 359
OSTRACOD R	685	0.80	0.05	521	260	261	40	10 312	2 952
BASAL MANNVILLE B	1 374	0.80	0.10	989	15	974	39	38 259	953
OTHER	9 837			6 264	2 695	3 569		139 044	
TOTAL-HUSSAR	33 193			23 918	12 601	11 317		433 315	
HUXLEY 034-24W4									
VIKING A		0.70	0.05				38		4 918
UPPER MANNVILLE A		0.70	0.05				39		200
LOWER MANNVILLE A		0.70	0.05				40		300
VIK A,UMN A & LMN A TOTAL	1 699	0.70	0.05	1 130	893	237	39	9 267	
OTHER	1 405			837	149	688		26 915	
TOTAL-HUXLEY	3 104			1 967	1 042	925		36 182	
HYLO 065-15W4									
LOWER MANNVILLE A	749	0.70	0.05	498	182	316	37	11 717	6 122
OTHER	1 340			847	336	511		18 972	
TOTAL-HYLO	2 089			1 345	518	827		30 689	
HYTHE 073-10W6									
TOTAL-HYTHE	1 382			887	65	822		33 179	
INLAND 051-15W4									
TOTAL-INLAND	3 015			1 593	703	890		32 682	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.82	0.220	0.40	6 570	32	0.892	0.57	731.1	1956	1985	PANALTA CANST TCPL PART OF VIK POOL NO.5 PRODUCTION DECLINE
16.21	0.061	0.80	24 670	64	0.861	0.66	2 628.1	1962	1989	A&S TCPL MATERIAL BALANCE TOP/BASE TVD
2.12	0.250	0.50	2 960	27	0.947	0.56	629.9	1960	1985	CWNGNUL TCPL PART OF MILK RIV POOL NO.1 PART OF MED HAT POOL NO.1
1.91	0.250	0.50	3 170	27	0.944	0.56	638.0	1960	1985	
0.81	0.250	0.50	3 170	27	0.944	0.56	662.9	1968	1985	
2.16	0.250	0.50	3 170	27	0.944	0.56	694.4	1965	1988	
								1960	1985	
2.82	0.154	0.55	3 140	16	0.937	0.56	798.8	1910	1987	
1.59	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	
2.22	0.205	0.60	3 170	20	0.939	0.56	649.7	1964	1984	
								1904	1984	
1.50	0.203	0.70	7 740	40	0.868	0.62	1 229.0	1955	1985	
1.08	0.203	0.70	7 930	38	0.871	0.60	1 141.5	1961	1987	TCPL PRODUCTION DECLINE
3.23	0.154	0.55	7 250	33	0.878	0.60	1 056.6	1955	1985	DEVNIC TCPL
1.06	0.169	0.70	8 550	44	0.880	0.59	1 320.1	1952	1984	TCPL MATERIAL BALANCE
1.07	0.177	0.70	8 470	45	0.891	0.56	1 255.8	1955	1988	TCPL MATERIAL BALANCE
						0.66		1956	1985	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
2.29	0.203	0.70	10 140	45	0.828	0.66	1 434.0	1956	1985	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION
5.14	0.227	0.75	10 200	44	0.811	0.69	1 426.5	1952	1987	CONING GAS CAP
						0.69		1952	1987	CONING GAS CAP
7.19	0.219	0.75	10 240	44	0.810	0.69	1 439.6	1952	1986	CONING GAS CAP
								1952	1987	TCPL CONING GAS CAP
4.38	0.209	0.70	10 140	44	0.831	0.64	1 366.0	1955	1984	TCPL PRODUCTION DECLINE
17.37	0.220	0.75	10 270	44	0.824	0.64	1 375.0	1957	1989	TCPL MATERIAL BALANCE
3.23	0.208	0.70	10 140	44	0.816	0.66	1 401.2	1960	1987	TCPL PRODUCTION DECLINE
17.27	0.210	0.70	10 270	44	0.809	0.67	1 416.4	1960	1989	TCPL PRODUCTION DECLINE
1.85	0.220	0.75	10 070	44	0.778	0.75	1 402.7	1968	1988	TCPL PRODUCTION DECLINE
2.52	0.178	0.45	9 900	43	0.826	0.65	1 419.4	1960	1987	TCPL
2.43	0.190	0.55	10 000	39	0.821	0.64	1 254.9	1954	1988	TCPL PART OF GLAUC POOL NO.6
1.40	0.211	0.75	9 470	44	0.828	0.66	1 394.8	1956	1973	TCPL
1.74	0.200	0.70	10 220	46	0.817	0.67	1 449.1	1956	1984	TCPL MATERIAL BALANCE
12.17	0.150	0.70	10 160	42	0.813	0.66	1 370.6	1960	1985	TCPL
3.97	0.150	0.40	8 570	52	0.870	0.63	1 486.9	1962	1988	PRODUCTION DECLINE
2.10	0.180	0.50	11 250	60	0.833	0.68	1 592.5	1963	1985	PRODUCTION DECLINE
8.10	0.123	0.70	11 420	62	0.836	0.67	1 681.6	1962	1989	PRODUCTION DECLINE
								1962	1985	PROGAS TCPL
3.62	0.244	0.55	2 460	19	0.951	0.56	482.2	1972	1988	TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
INNISFAIL 035-01W5									
D-3 SOLN	6 000	0.60	0.40	2 160 ^b			39		
D-3 ASSOC	253	0.65	0.30	115 ^b	1 994 ^b	281	39	10 998	307
OTHER	1 287			790	14	776		30 703	
TOTAL-INNISFAIL	7 540			3 065	2 008	1 057		41 701	
INVERNESS (SA) 068-12W5									
TOTAL-INVERNESS	84			53		53		2 059	
IOSEGUN (SA) 067-20W5									
TOTAL-IOSEGUN	52			35		35		1 038	
IPIATIK 072-09W4									
GRAND RAPIDS A	794	0.60	0.05	452	243	209	37	7 714	9 444
GRAND RAPIDS B	653	0.50	0.05	311	193	118	37	4 347	7 281
OTHER	654			335	146	189		6 970	
TOTAL-IPIATIK	2 101			1 098	582	516		19 031	
IRON SPRINGS 011-20W4									
TOTAL-IRON SPRINGS	307			209	21	188		6 701	
IRRICANA 027-27W4									
WABAMUN A	1 333	0.45	0.25	450	436	14	36	507	801
WABAMUN B	1 070	0.55	0.20	471		471	37	17 210	1 930
OTHER	217			125	60	65		2 375	
TOTAL-IRRICANA	2 620			1 046	496	550		20 092	
ISLAY 050-04W4									
TOTAL-ISLAY	57			41	4	37		1 284	
JACK 085-04W6									
TOTAL-JACK	218			150	43	107		3 974	
JARVIE 063-01W5									
VIKING A	522	0.80	0.05	397	30	367	38	14 074	5 293
ELLERSLIE B	495	0.75	0.05	352	100	252	39	9 725	2 017
OTHER	1 281			844	149	695		26 374	
TOTAL-JARVIE	2 298			1 593	279	1 314		50 173	
JARVIE NORTH 064-02W5									
TOTAL-JARVIE NORTH	283			190		190		7 143	
JASLAN 067-21W4									
TOTAL-JASLAN	109			72		72		2 700	
JEAN (SA) 098-24W4									
TOTAL-JEAN	38			27		27		992	
JEFFREY 059-23W4									
TOTAL-JEFFREY	141			93	1	92		2 901	
JENNER 020-09W4									
MILK RIVER A	5 278	0.70	0.05	3 510			36		38 808
MEDICINE HAT A	1 914	0.70	0.03	1 300			36		36 071
MEDICINE HAT C	74	0.50	0.03	36			36		2 841
MEDICINE HAT D	144	0.50	0.03	70			36		4 999
SECOND WHITE SPECKS A	1 585	0.75	0.05	1 130			36		20 095
SE ALTA GAS SYS(MU) TOTAL	8 995	0.70	0.05	6 046	1 958	4 088	36	149 089	
VIKING J	454	0.80	0.05	345	171	174	37	6 455	2 866
BASAL COLORADO D	669	0.85	0.05	541	88	453	36	16 467	2 166
ARCS A	534	0.80	0.20	342	218	124	35	4 330	400
OTHER	4 689			3 093	686	2 407		85 970	
TOTAL-JENNER	15 341			10 367	3 121	7 246		262 311	
JILES 063-21W4									
TOTAL-JILES	344			206	42	164		6 153	
JOAN 092-10W5									
TOTAL-JOAN	111			72		72		2 718	
JOARCAM 048-21W4									
VIKING C SOLN	5	0.60	0.05	3 ^b			38		

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
6.52	0.058	0.85	24 480	68	0.796	0.84 0.84	2 566.4	1957 1957	1989 1989	TCPL GPP TCPL GPP
2.42 2.79	0.296 0.282	0.70 0.70	1 630 1 590	13 14	0.966 0.967	0.56 0.56	317.2 318.0	1974 1974	1986 1986	PANALTA ESSO PANALTA
4.07 6.52	0.050 0.054	0.70 0.70	24 340 24 200	74 71	0.916 0.889	0.65 0.71	2 317.3 2 345.8	1958 1969	1986 1986	PRODUCTION DECLINE PROGAS PANALTA
1.34 2.60	0.209 0.219	0.60 0.65	5 610 6 460	32 40	0.891 0.885	0.61 0.62	674.6 905.9	1960 1965	1987 1986	PANALTA PANALTA
5.38 1.23 0.66 0.73 1.02	0.154 0.170 0.139 0.139 0.216	0.55 0.55 0.60 0.60 0.60	3 140 4 310 4 450 4 450 5 690	16 17 19 19 27	0.937 0.916 0.916 0.916 0.904	0.56 0.56 0.56 0.56 0.56	355.7 487.7 487.7 487.7 630.0	1910 1904 1973 1973 1944	1987 1987 1987 1987 1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE PART OF MED HAT POOL NO.1 PART OF MED HAT POOL NO.3 PART OF MED HAT POOL NO.4 PART OF 2WS POOL NO.1 RENENER PANALTA CANST TCPL
1.48 2.11 11.30	0.239 0.226 0.131	0.60 0.65 0.80	6 760 8 950 10 500	23 28 46	0.871 0.848 0.830	0.59 0.60 0.79	746.1 855.5 1 214.2	1971 1980 1981	1989 1983 1983	SCEPTRE TCPL SCEPTRE NONCOMMERCIAL OIL
						0.61		1949	1987	PROGAS PANALTA ESSO CNWE CWNGNUL VECTOR

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
JOARCAM 048-21W4 (CONTINUED)									
VIKING C ASSOC	983	0.60	0.05	561 ^b	47 ^b	517	38	19 667	19 446
VIKING ASSOC	2 174	0.80	0.35	1 130 ^b			37		13 277
VIKING SOLN	1 445	0.54	0.40	468 ^b			37		
VIKING ASSOC	2	0.55	0.05	1 ^b			38		16
VIKING TOTAL	3 621	0.70	0.35	1 599 ^b	1 286 ^b	313	37	11 531	
OTHER	2 070			1 420	86	1 334		50 414	
TOTAL-JOARCAM	6 679			3 583	1 419	2 164		81 612	
JOFFRE 038-26W4									
BLAIRMORE J	439	0.85	0.10	336	250	86	40	3 455	486
UPPER MANNVILLE A	393	0.85	0.15	284			41		205
UPPER MANNVILLE B	55	0.65	0.10	32			40		150
BLAIRMORE C	457	0.85	0.10	350			40		1 485
U MANN A&B, BLAIR C TOTAL	905	0.85	0.10	666	587	79	40	3 181	
D-2 SOLN	3 689	0.34	0.60	502	499	3	43	128	
OTHER	3 781			1 692	249	1 443		56 527	
TOTAL-JOFFRE	8 814			3 196	1 585	1 611		63 291	
JOHN LAKE 055-01W4									
TOTAL-JOHN LAKE	1 577			1 001	281	720		26 102	
JOHNSON 016-14W4									
MILK RIVER A	535	0.70	0.05	356			36		3 833
SECOND WHITE SPECKS A	137	0.75	0.05	98			36		2 427
SE ALTA GAS SYS(MU) TOTAL	672	0.70	0.05	454	11	443	36	16 156	
OTHER	335			227		227		8 282	
TOTAL-JOHNSON	1 007			681	11	670		24 438	
JOLI FOU (SA) 081-20W4									
TOTAL-JOLI FOU	42			22		22		781	
JOLIET 025-07W4									
TOTAL-JOLIET	84			60		60		2 170	
JOSEPHINE 083-09W6									
KISKATINAW A	991	0.70	0.05	659	555	104	39	4 023	1 600
OTHER	43			31		31		1 161	
TOTAL-JOSEPHINE	1 034			690	555	135		5 184	
JOUSSARD (SA) 074-14W5									
TOTAL-JOUSSARD	202			141		141		5 332	
JUDSON (SA) 007-12W4									
TOTAL-JUDSON	24			16		16		585	
JUDY CREEK 063-11W5									
VIKING A SOLN	288	0.65	0.30	131 ^b			38		
VIKING A ASSOC	2 747	0.91	0.10	2 250 ^b	2 292 ^b	89	38	3 394	8 965
BEAVERHILL LAKE A SOLN	16 038	0.53	0.30	5 950	5 712	238	43	10 205	
BEAVERHILL LAKE B SOLN	8 043	0.46	0.20	2 960	2 435	525	43	22 512	
OTHER	687			451	913	1 364		57 309	
TOTAL-JUDY CREEK	27 803			11 742	9 526	2 216		93 420	
JUDY CREEK SOUTH 062-12W5									
TOTAL-JUDY CREEK SOUTH	971			539	70	469		18 864	
JUMPBUSH 019-20W4									
BI SS 020-21	577	0.75	0.05	411		411	36	14 862	1 947
OTHER	1 101			652	23	629		24 400	
TOTAL-JUMPBUSH	1 678			1 063	23	1 040		39 262	
JUMPING POUND 025-04W5									
MISSISSIPPIAN	6 435	0.88	0.17	4 700			39		469
MISSISSIPPIAN	18 209	0.88	0.17	13 300			39		1 485
MISSISSIPPIAN TOTAL	24 644	0.90	0.15	18 000	14 774	3 226	39	126 621	
TOTAL-JUMPING POUND	24 644			18 000	14 774	3 226		126 621	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
0.91	0.184	0.50	6 000	42	0.897	0.61	985.1	1949	1987	A&S CONCURRENT PRODUCTION PROGAS PANALTA ESSO CNWE CWNGNUL VECTOR
1.96	0.196	0.70	5 960	38	0.895	0.64	984.0	1949	1988	A&S CONCURRENT PRODUCTION CONCURRENT PRODUCTION, GAS FLOOD
1.50	0.210	0.70	4 640	32	0.914	0.60	988.6	1949	1988	CONCURRENT PRODUCTION, GAS FLOOD
								1949	1988	PROGAS PANALTA ESSO CNWE CNWGNUL VECTOR A&S CONCURRENT PRODUCTION
4.77	0.150	0.75	15 150	55	0.780	0.71	1 790.2	1957	1987	PANALTA TCPL
3.91	0.226	0.89	14 180	68	0.791	0.75	1 761.0	1967	1980	A&S CONCURRENT PRODUCTION MATERIAL BALANCE
3.35	0.120	0.75	11 200	54	0.803	0.71	1 784.3	1964	1988	
1.68	0.147	0.70	16 110	56	0.785	0.71	1 824.1	1958	1985	
						0.86		1958	1984	CWNGNUL POCO TCPL
								1956	1988	TCPL
3.80	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
0.73	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	PART OF 2WS POOL NO.1
								1904	1987	TCPL
9.27	0.130	0.70	15 640	69	0.845	0.66	1 749.9	1974	1986	TCPL MATERIAL BALANCE
2.40	0.178	0.65	8 890	56	0.878	0.62	1 387.1	1959	1986	CWNGNUL A&S MATERIAL BALANCE CONCURRENT PRODUCTION
						0.87		1959	1986	CWNGNUL A&S MATERIAL BALANCE CONCURRENT PRODUCTION
						0.87		1959	1988	A&S DEEP CUT SL
								1959	1989	
2.69	0.215	0.65	7 380	29	0.881	0.58	1 134.5	1973	1975	PROGAS
38.71	0.079	0.90	27 410	82	0.915	0.69	3 013.6	1944	1984	MATERIAL BALANCE DEEP CUT SL
43.28	0.079	0.90	27 410	82	0.915	0.69	2 989.5	1944	1984	MATERIAL BALANCE DEEP CUT SL
								1944	1983	CWNGNUL TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
JUMPING POUND WEST 025-06W5									
RUNDLE C	22 059	0.85	0.20	15 000	6 719	8 281	39	320 143	4 084
RUNDLE A		0.85	0.20				39		7 891
RUNDLE B		0.85	0.20				39		1 143
RUNDLE A & B TOTAL	52 941	0.85	0.20	36 000	18 410	17 590	39	684 603	
PEK 19-026-06	475	0.85	0.15	343		343	39	13 281	200
TV 36-024-06	1 493	0.90	0.10	1 210		1 210	39	47 057	512
TV 36-024-06	722	0.85	0.20	491		491	39	19 002	512
OTHER	352			226		226		8 748	
TOTAL-JUMPING POUND WEST	78 042			53 270	25 129	28 141		1 092 834	
KAHNTAH (SA) 097-18W5									
TOTAL-KAHNTAH	52			32		32		1 191	
KAKISA (SA) 117-01W6									
TOTAL-KAKISA	20			14		14		511	
KAKUT 075-03W6									
TOTAL-KAKUT	489			345		345		13 321	
KAKWA 064-05W6									
A CARDIUM A SOLN	1 387	0.65	0.25	677		677	42	28 211	
A CARDIUM A ASSOC	1 120	C	C	840		840	42	35 003	3 432
OTHER	3 055			2 045	265	1 780		71 207	
TOTAL-KAKWA	5 562			3 562	265	3 297		134 421	
KALELAND (SA) 054-13W4									
TOTAL-KALELAND	333			242		242		8 987	
KARR 065-03W6									
CADOTTE A	700	0.80	0.05	532		532	39	20 631	1 577
NOTI 066-04	1 481	0.90	0.10	1 200		1 200	39	47 004	1 013
BLUESKY A	12 376	0.75	0.15	7 890	1 598	6 292	40	254 700	20 774
CADOMIN B	653	0.85	0.05	527	98	429	39	16 555	937
OTHER	2 156			1 455	102	1 353		52 931	
TOTAL-KARR	17 366			11 604	1 798	9 806		391 821	
KAYBOB 064-19W5									
UPPER MANNVILLE A	123	0.70	0.05	82			39		150
NOTIKWIN A	8 347	0.85	0.05	6 740			39		12 306
NOTIK A & U MANN A TOTAL	8 470	0.85	0.05	6 822	5 547	1 275	39	49 241	
NOTIKWIN B	5 380	0.90	0.05	4 600	4 295	305	38	11 529	13 652
NOTIKWIN E	1 932	0.85	0.05	1 560	272	1 288	38	49 472	7 603
GETHING K SOLN	328	0.65	0.55	96b			39		
GETHING K ASSOC	2 484	0.85	0.10	1 900b	948b	1 048	39	41 050	2 452
GETHING L SOLN	4	0.65	0.15	3b			40		
GETHING L ASSOC	459	0.80	0.10	330b	106b	227	40	8 973	888
GETHING H	731	0.75	0.10	493	53	440	40	17 380	1 408
GETHING J	415	0.85	0.10	318	6	312	39	12 190	551
BEAVERHILL LAKE A SOLN	8 774	0.45	0.20	3 158	2 604	554	43	23 761	
BEAVERHILL LAKE B SOLN	552	0.65	0.15	305b			40		
BEAVERHILL LAKE B ASSOC	116	0.75	0.10	78b	123b	260	40	10 507	333
BEAVERHILL LAKE C	2 326	C	C	1 780	138	1 642	42	69 506	2 542
OTHER	3 397			2 281	42	2 239		87 075	
TOTAL-KAYBOB	35 368			23 724	14 134	9 590		380 684	
KAYBOB SOUTH 060-18W5									
VIKING A	1 074	0.90	0.10	871	391	480	39	18 941	4 932
BLUESKY B	1 055	0.75	0.10	712	131	581	39	22 886	1 701
GETHING A	843	0.75	0.05	600	364	236	39	9 263	1 452
GETHING D	1 529	0.85	0.10	1 170	190	980	32	31 830	3 120
GETHING K	1 463	0.85	0.10	1 120	60	1 060	39	40 852	2 250
GETHING H	1 643	0.75	0.05	1 170	167	1 003	39	39 007	3 586
CADOMIN A	1 216	0.90	0.05	1 040	509	531	39	20 613	815
CADOMIN D	753	0.85	0.05	608	393	215	39	8 370	440
CADOMIN K	682	0.75	0.05	486	293	193	39	7 494	150
TRIASSIC A ASSOC	1 258	0.35	0.20	352b			44		1 415
TRIASSIC A SOLN	4 294	0.53	0.25	1 707b			44		
TRIASSIC A ASSOC	245	0.75	0.20	147b			44		782
TRIASSIC A TOTAL	5 797	0.50	0.25	2 206b	1 707b	499	44	22 011	
TRIASSIC B	2 206	0.80	0.15	1 500	550	950	40	38 428	1 721
BLUERIDGE A	1 601	0.75	0.35	781	52	729	40	29 051	954

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
40.58	0.061	0.85	29 470	83	0.917	0.74	3 478.1	1967	1986	CWNGNUL TCPL DEEP CUT SL
35.87	0.070	0.85	29 510	79	0.928	0.70	3 313.1	1961	1984	MATERIAL BALANCE TOP/BASE TVD, DEEP CUT SL
36.82	0.068	0.85	29 600	88	0.936	0.70	3 588.5	1963	1986	MATERIAL BALANCE TOP/BASE TVD
								1961	1984	CWNGNUL TCPL
13.41	0.100	0.75	30 561	104	0.976	0.66	3 430.1	1977	1979	CWNGNUL TCPL TOP/BASE TVD
28.20	0.070	0.80	22 630	103	0.927	0.65	3 496.9	1983	1987	CWNGNUL TCPL TOP/BASE TVD
20.60	0.058	0.60	23 960	105	0.917	0.72	3 554.2	1983	1986	CWNGNUL TCPL TOP/BASE TVD
						0.85				
1.48	0.140	0.70	20 990	55	0.734	0.85	1 712.3	1978	1987	ESSO UNOCAL CDNHUNT GAS CYCLING
								1978	1987	ESSO UNOCAL CDNHUNT GAS CYCLING
4.01	0.133	0.55	15 110	58	0.858	0.58	1 962.3	1979	1989	PANALTA CEL
7.50	0.139	0.75	18 650	62	0.847	0.63	2 028.7	1988	1989	GULF PANALTA ESSO CEL CDNHUNT
3.56	0.117	0.70	19 560	69	0.796	0.77	2 293.3	1968	1989	PANALTA CDNHUNT
4.51	0.113	0.70	21 540	80	0.888	0.64	2 586.1	1979	1989	
6.70	0.180	0.65	10 780	64	0.872	0.62	1 557.1	1964	1987	
4.03	0.200	0.65	10 550	40	0.826	0.63	1 442.7	1957	1987	MATERIAL BALANCE
								1957	1987	GULF A&S
2.84	0.159	0.65	9 790	56	0.875	0.61	1 503.6	1957	1986	GULF A&S MATERIAL BALANCE
1.81	0.165	0.65	11 890	56	0.856	0.61	1 373.0	1978	1989	DIRECT TCPL MATERIAL BALANCE
						0.66		1957	1989	GULF A&S CONCURRENT PRODUCTION
6.19	0.157	0.70	15 240	71	0.846	0.66	1 762.4	1957	1989	GULF A&S CONCURRENT PRODUCTION
						0.66		1957	1989	PROGAS A&S SLUSH OIL
3.11	0.162	0.70	14 380	63	0.831	0.66	1 751.5	1957	1989	PROGAS A&S SLUSH OIL
3.63	0.146	0.70	14 540	75	0.849	0.67	1 874.2	1981	1985	
4.37	0.150	0.70	15 530	54	0.823	0.63	1 778.9	1959	1989	A&S
						0.79		1957	1989	GULF A&S
						0.73		1961	1988	A&S CONCURRENT PRODUCTION
3.06	0.064	0.75	30 520	108	0.958	0.73	2 929.6	1961	1988	A&S CONCURRENT PRODUCTION
7.50	0.065	0.75	30 540	108	0.911	1.03	2 962.9	1961	1988	A&S GAS CYCLING SCHEME
2.50	0.134	0.55	10 010	66	0.864	0.66	1 718.0	1960	1989	GULF A&S
5.36	0.118	0.75	13 700	80	0.844	0.71	2 153.7	1977	1988	PROGAS PANALTA A&S
3.87	0.139	0.70	14 790	83	0.879	0.62	2 153.7	1959	1988	PROGAS
4.40	0.124	0.65	14 110	57	0.880	0.67	2 101.1	1977	1983	PROGAS PANALTA DEEP CUT SL
4.29	0.139	0.70	16 990	82	0.874	0.65	2 193.8	1971	1989	PROGAS PANALTA A&S
4.25	0.127	0.65	13 920	75	0.871	0.63	2 011.5	1957	1989	PROGAS PANALTA TCPL PART OF GETHING POOL NO. 1
7.16	0.148	0.65	15 380	83	0.877	0.64	2 045.2	1961	1973	PROGAS TCPL
8.02	0.150	0.65	15 130	80	0.873	0.64	2 000.7	1967	1989	PRODUCTION DECLINE
6.40	0.148	0.65	14 630	80	0.875	0.64	2 058.1	1963	1989	A&S PRODUCTION DECLINE
5.06	0.127	0.75	17 060	73	0.760	0.81	2 054.4	1962	1988	CONING GAS CAP
						0.81		1962	1988	CONING GAS CAP
1.78	0.127	0.75	17 060	73	0.760	0.81	2 090.8	1962	1988	
								1962	1988	GULF A&S CONING GAS CAP
3.47	0.111	0.80	19 310	91	0.867	0.70	2 376.6	1976	1986	PROGAS TCPL MATERIAL BALANCE
16.40	0.058	0.80	25 220	106	0.858	0.84	2 900.9	1978	1989	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
KAYBOB SOUTH 060-18W5 (CONTINUED)									
NISKU A	486	0.90	0.10	393		393	42	16 329	440
BEAVERHILL LAKE A	104 424	c	c	36 400	15 604	20 796	41	853 676	20 015
OTHER	5 648			3 725	600	3 125		122 758	
TOTAL-KAYBOB SOUTH	130 420			52 782	21 011	31 771		1 281 509	
KEHIWIN 059-06W4									
GRAND RAPIDS A	617	0.75	0.05	440	219	221	38	8 422	3 463
OTHER	770			487	159	328		12 198	
TOTAL-KEHIWIN	1 387			927	378	549		20 620	
KEHO 011-22W4									
TOTAL-KEHO	834			433	260	173		6 058	
KELLY (SA) 073-19W4									
TOTAL-KELLY	23			13		13		483	
KELSEY 044-18W4									
BELLY RIVER B	478	0.75	0.05	341	323	18	38	675	4 385
OTHER	1 511			937	80	857		32 126	
TOTAL-KELSEY	1 989			1 278	403	875		32 801	
KEMP (SA) 098-23W5									
TOTAL-KEMP	14			9		9		333	
KENT 062-02W4									
GRAND RAPIDS D	494	0.65	0.05	305	60	245	37	9 121	902
OTHER	939			549	110	439		16 417	
TOTAL-KENT	1 433			854	170	684		25 538	
KETTLE (SA) 082-07W4									
TOTAL-KETTLE	21			12		12		441	
KIDNEY 091-04W5									
TOTAL-KIDNEY	17			10		10		375	
KILLAM 043-10W4									
UPPER & MIDDLE VIK. A ASSOC	1 924	0.75	0.03	1 400	1 222	178	36	6 477	64 713
ELLERSLIE C	554	0.80	0.05	421	111	310	37	11 427	2 815
OTHER	7 079			4 556	1 661	2 895		105 388	
TOTAL-KILLAM	9 557			6 377	2 994	3 383		123 292	
KILLAM NORTH 044-13W4									
UPPER & MID VIKING A		0.70	0.03				36		55 971
BASAL MANNVILLE C		0.70	0.03				36		202
BASAL MANNVILLE U	56	0.65	0.05	34			37		200
NISKU A		0.70	0.03				36		32
U&M V A, BMN C&U & NIS TOTAL	1 677	0.70	0.05	1 135	937	198	37	7 423	
UPPER MANNVILLE P	463	0.75	0.05	330	114	216	37	8 076	1 365
OTHER	4 794			3 171	1 067	2 104		77 964	
TOTAL-KILLAM NORTH	6 934			4 636	2 118	2 518		93 463	
KILSYTH 065-04W5									
TOTAL-KILSYTH	30			19		19		644	
KIMIWAN 079-20W5									
TOTAL-KIMIWAN	211			144	115	29		1 067	
KINGMAN 049-19W4									
TOTAL-KINGMAN	233			153	34	119		4 434	
KINMUNDY 025-09W4									
TOTAL-KINMUNDY	37			25		25		943	
KIRBY 074-05W4									
UPPER MANNVILLE A	3 508	0.60	0.05	2 000	193	1 807	36	65 287	26 605
UPPER MANNVILLE C	2 982	0.60	0.05	1 700	91	1 609	37	60 032	46 729
UPPER MANNVILLE D	1 698	0.80	0.05	1 290	560	730	37	27 244	10 227
UPPER MANNVILLE I	10 252	0.50	0.05	4 870	2 657	2 213	37	81 881	37 160
UPPER MANNVILLE J	644	0.70	0.05	428		428	37	15 819	7 464
UPPER MANNVILLE K	976	0.75	0.05	695		695	37	25 562	5 247

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
12.20 31.12	0.050 0.079	0.80 0.80	28 270 31 720	108 115	0.932 0.880	0.73 1.01	2 907.7 3 371.6	1958 1961	1984 1985	TCPL A&S CNG GAS CYCLING SCHEME
2.45	0.304	0.80	2 840	15	0.938	0.57	403.2	1971	1983	TCPL
2.64	0.275	0.50	2 870	16	0.940	0.57	428.9	1974	1989	GULF A&S TCPL
3.01	0.323	0.75	2 340	16	0.951	0.57	283.8	1965	1989	DIRECT MATERIAL BALANCE
1.47 1.75	0.160 0.254	0.35 0.65	5 500 6 830	24 45	0.895 0.897	0.60 0.61	714.5 916.9	1917 1957	1985 1982	PANALTA ESSO TCPL PART OF VIK POOL NO.2 MATERIAL BALANCE CONCURRENT PRODUCTION TCPL
1.15 0.91 2.75 3.30 4.44	0.160 0.240 0.250 0.200 0.228	0.35 0.50 0.60 0.65 0.55	5 500 6 070 6 480 5 240 5 790	24 28 31 28 28	0.895 0.891 0.887 0.905 0.898	0.60 0.60 0.59 0.60 0.57	709.3 827.5 924.9 832.2 822.8	1917 1976 1978 1976 1976	1989 1982 1988 1982 1987 1986	PART OF VIK POOL NO.2 MATERIAL BALANCE PART OF VIK POOL NO.2 MATERIAL BALANCE PART OF VIK POOL NO.2 PART OF VIK POOL NO.2 MATERIAL BALANCE TCPL PART OF VIK POOL NO.2 TCPL
3.73 2.13 3.76 5.89 1.76 3.66	0.311 0.307 0.339 0.314 0.323 0.344	0.70 0.65 0.55 0.70 0.70 0.65	1 610 1 490 2 330 2 120 2 170 2 240	18 18 20 22 24 20	0.969 0.970 0.955 0.959 0.959 0.957	0.57 0.55 0.55 0.56 0.57 0.56	283.1 314.8 369.8 417.9 462.5 359.2	1977 1978 1977 1977 1978 1978	1989 1989 1989 1989 1989 1989	EMI PROGAS EMI 1 PROGAS CEL PROGAS PROGAS PROGAS EMI PROGAS PANALTA EMI 1

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
KIRBY 074-05W4 (CONTINUED)									
OTHER	2 208			1 155	105	1 050		38 924	
TOTAL-KIRBY	22 268			12 138	3 606	8 532		314 749	
KIRKWALL 027-05W4									
VIKING A	806	0.70	0.05	536	519	17	37	623	5 255
VIKING B	869	0.65	0.05	537	445	92	37	3 380	3 459
OTHER	154			100	14	86		3 211	
TOTAL-KIRKWALL	1 829			1 173	978	195		7 214	
KISKIU (SA) 057-02W6									
TOTAL-KISKIU	197			133		133		5 050	
KITSIM 017-16W4									
MILK RIVER A	188	0.70	0.05	125			36		2 970
MEDICINE HAT A	397	0.70	0.03	270			36		6 095
SE ALTA GAS SYS(MU) TOTAL	585	0.70	0.05	395		395	36	14 406	
OTHER	188			136	15	121		4 394	
TOTAL-KITSIM	773			531	15	516		18 800	
KITTY 085-12W5									
TOTAL-KITTY	34			23		23		847	
KIYA (SA) 096-24W5									
TOTAL-KIYA	16			10		10		375	
KLESKUN (SA) 072-02W6									
TOTAL-KLESKUN	27			19		19		697	
KNAPPEN 001-11W4									
LOWER MANNVILLE G	396	0.80	0.05	301		301	36	10 971	150
OTHER	484			332	130	202		7 477	
TOTAL-KNAPPEN	880			633	130	503		18 448	
KNELLER 049-23W4									
TOTAL-KNELLER	694			423	230	193		7 199	
KNOPCIK 074-11W6									
DOE CREEK A	1 020	0.75	0.10	689	201	488	40	19 530	5 151
PADDY C	514	0.80	0.10	370	56	314	40	12 629	928
JURASSIC B	1 563	0.70	0.10	985	302	683	41	28 276	3 352
DOIG A	496	0.80	0.10	357		357	38	13 591	200
DOIG B	515	0.85	0.10	394	16	378	38	14 266	200
OTHER	2 139			1 483	174	1 309		50 322	
TOTAL-KNOPCIK	6 247			4 278	749	3 529		138 614	
KOTCHO (SA) 112-11W6									
TOTAL-KOTCHO	3			2		2		72	
LA COREY 063-05W4									
TOTAL-LA COREY	344			196		196		7 298	
LA GLACE 074-08W6									
BLUESKY A	556	0.85	0.05	449		449	38	17 174	2 255
OTHER	58			41		41		1 602	
TOTAL-LA GLACE	614			490		490		18 776	
LAC LA BICHE 067-13W4									
TOTAL-LAC LA BICHE	305			193	161	32		1 191	
LACOMBE 040-26W4									
TOTAL-LACOMBE	560			382	185	197		7 608	
LAIT 001-10W4									
TOTAL-LAIT	858			609	341	268		9 895	
LAMBERT 051-22W5									
D-3 A	2 176	0.85	0.40	1 110	524	586	38	21 975	440
TOTAL-LAMBERT	2 176			1 110	524	586		21 975	
LAMONT 053-19W4									
TOTAL-LAMONT	56			36	1	35		1 329	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.19 1.88	0.300 0.290	0.60 0.55	6 570 6 600	31 31	0.893 0.891	0.57 0.58	796.9 757.5	1968 1972	1987 1988	TCPL PRODUCTION DECLINE PANALTA TCPL PRODUCTION DECLINE
2.50 1.51	0.164 0.170	0.55 0.55	3 140 4 310	16 17	0.937 0.916	0.56 0.56	355.7 487.7	1910 1904 1904	1987 1987 1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE PART OF MED HAT POOL NO.1 PROGAS TCPL
15.50	0.320	0.85	5 820	23	0.893	0.58	742.8	1981	1988	
2.72 4.06 2.60 14.00 16.40	0.186 0.160 0.117 0.120 0.110	0.60 0.65 0.80 0.80 0.70	6 210 11 900 18 370 20 650 23 320	39 52 70 80 80	0.868 0.794 0.795 0.901 0.922	0.66 0.69 0.74 0.61 0.59	898.0 1 425.6 2 065.3 2 384.5 2 397.9	1964 1984 1980 1987 1986	1989 1989 1989 1989 1989	PROGAS POCO PANALTA ESSO TCPL ESSO A&S VECTOR ATCOR PROGAS PANALTA ESSO POCO ATCOR TOP/BASE TVD
2.81	0.130	0.55	12 770	65	0.875	0.60	1 591.4	1979	1989	CWNGNUL A&S CANST BER
66.85	0.068	0.90	42 660	123	1.021	0.80	4 430.8	1979	1989	PANALTA PRODUCTION DECLINE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
LANAWAY 036-03W5									
MANNVILLE ASSOC	529	0.70	0.15	315		315	40	12 528	748
OTHER	2 045			1 238	109	1 129		44 805	
TOTAL-LANAWAY	2 574			1 553	109	1 444		57 333	
LANFINE 025-05W4									
TOTAL-LANFINE	41			29		29		1 073	
LARNE 116-03W6									
TOTAL-LARNE	675			489		489		17 927	
LATHOM 020-18W4									
BOW ISLAND A	600	0.85	0.05	485	266	219	36	7 945	200
OTHER	2 633			1 703	514	1 189		44 335	
TOTAL-LATHOM	3 233			2 188	780	1 408		52 280	
LATHROP (SA) 088-07W6									
TOTAL-LATHROP	70			43		43		1 643	
LATOR 063-02W6									
WAB 29-062-03	980	0.75	0.35	478		478	39	18 546	200
OTHER	741			475	19	456		18 013	
TOTAL-LATOR	1 721			953	19	934		36 559	
LATORNELL 063-01W6									
TOTAL-LATORNELL	28			19		19		741	
LAWRENCE 041-12W5									
TOTAL-LAWRENCE	697			460		460		17 969	
LEAHURST 039-18W4									
TOTAL-LEAHURST	3 293			2 092	170	1 922		73 694	
LEAMAN 055-11W5									
LOWER MANNVILLE F	733	0.85	0.10	561	409	152	40	6 138	1 668
ROCK CREEK B	444	0.85	0.10	339	14	325	40	13 078	200
NORDEGG B	1 124	0.85	0.10	860		860	39	33 480	1 776
OTHER	2 021			1 362	395	967		38 555	
TOTAL-LEAMAN	4 322			3 122	818	2 304		91 251	
LECKIE 019-17W4									
MILK RIVER A	549	0.70	0.05	365			36		5 874
MEDICINE HAT A	233	0.70	0.03	158			36		4 539
MEDICINE HAT C	24	0.50	0.03	12			36		833
SE ALTA GAS SYS (MU) TOTAL	806	0.70	0.05	535	38	497	36	18 126	
OTHER	134			94	83	11		411	
TOTAL-LECKIE	940			629	121	508		18 537	
LEDDY 084-25W5									
TOTAL-LEDDY	77			48		48		1 807	
LEDUC-WOODBEND 050-26W4									
ELRS 051-26 ASSOC	731	0.85	0.15	528		528	40	20 888	1 459
ELRS 049-25	711	0.90	0.10	576		576	38	22 107	1 740
D-2 B SOLN	1 225	0.75	0.50	460	417	43	42	1 788	
D-2 A SOLN	3 761	0.62	0.40	1 399b			43		
D-2 A ASSOC	1 072	0.85	0.15	774b	2 016b	157	43	6 806	3 954
D-3 A SOLN	5 998	0.65	0.30	2 729b			40		
D-3 A ASSOC	11 540	0.89	0.15	8 730b	4 016b	7 443	40	299 060	6 753
OTHER	7 340			4 686	1 677	3 009		116 759	
TOTAL-LEDUC-WOODBEND	32 378			19 882	8 126	11 756		467 408	
LEECH (SA) 060-09W5									
TOTAL-LEECH	11			8		8		309	
LEGAL 057-25W4									
U MANN 03-057-25	377	0.85	0.05	304		304	38	11 607	440
OTHER	150			96	74	22		819	
TOTAL-LEGAL	527			400	74	326		12 426	
LEISMER 077-09W4									
CLEARWATER A	24 291	0.65	0.05	15 000	5 410	9 590	37	358 954	71 539

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
4.73	0.110	0.75	17 140	68	0.788	0.78	2 234.7	1959	1983	PROGAS METHON A&S
13.88	0.210	0.55	8 530	36	0.877	0.58	1 019.7	1972	1989	TCPL MATERIAL BALANCE
22.50	0.095	0.85	38 910	135	1.006	0.81	3 956.0	1978	1984	BER
2.31	0.150	0.70	15 550	44	0.770	0.67	1 792.1	1972	1985	TCPL
13.50	0.141	0.65	16 060	54	0.779	0.70	1 782.0	1987	1988	CNWE
7.09	0.123	0.60	12 070	62	0.847	0.66	1 638.3	1978	1989	PROGAS AMOCO CANST
3.70	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
1.19	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1988	PART OF MED HAT POOL NO.1
0.73	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1988	PART OF MED HAT POOL NO.3
								1904	1988	TCPL
3.81	0.180	0.70	10 000	55	0.831	0.71	1 316.7	1948	1989	ESSO
2.23	0.200	0.70	10 340	49	0.826	0.69	1 353.3	1951	1973	
						0.78			1950	1985
						0.79			1947	1988
12.56	0.020	0.80	12 290	66	0.764	0.79	1 539.2	1947	1988	ESSO GPP
						0.76			1947	1987
18.22	0.080	0.85	13 060	67	0.792	0.76	1 609.3	1947	1987	CWNGNUL ESSO CONCURRENT PRODUCTION CWNGNUL ESSO CONCURRENT PRODUCTION
6.34	0.235	0.60	8 590	31	0.839	0.62	963.9	1988	1989	
4.56	0.284	0.70	1 980	9	0.956	0.55	269.4	1974	1988	PANALTA PCI HOME ESSO CANOXY KANNGAZ

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
LEISMER 077-09W4 (CONTINUED)									
OTHER	966			513		513		19 066	
TOTAL-LEISMER	25 257			15 513	5 410	10 103		378 020	
LELAND 069-26W5									
TOTAL-LELAND	43			29		29		1 135	
LEMING 065-04W4									
TOTAL-LEMING	1 965			1 159	663	496		18 298	
LENNOX (SA) 045-02W5									
TOTAL-LENNOX	147			100		100		3 937	
LEO 035-17W4									
BELLY RIVER A	515	0.80	0.10	371	95	276	38	10 491	4 460
UPPER MANNVILLE F SOLN	19	0.65	0.10	11 ^b		39	39		
UPPER MANNVILLE F ASSOC	2 778	0.80	0.10	2 000 ^b	1 185 ^b	826	39	31 999	4 382
OTHER	989			592	131	461		17 472	
TOTAL-LEO	4 301			2 974	1 411	1 563		59 962	
LEOPARD 009-20W4									
TOTAL-LEOPARD	42			20	19	1		34	
LEPINE 064-03W5									
TOTAL-LEPINE	60			38		38		1 501	
LESSARD 124-17W5									
TOTAL-LESSARD	7			5		5		184	
LETHBRIDGE 008-21W4									
TOTAL-LETHBRIDGE	19			14		14		512	
LIEGE 093-21W4									
WABISKAW A	2 358	0.50	0.05	1 120			37		43 293
WABISKAW C	84	0.50	0.05	40			37		2 623
WABISKAW D	120	0.50	0.05	57			37		2 607
MCMURRAY A	950	0.50	0.05	451			37		20 302
MCMURRAY B	7	0.50	0.05	4			37		200
MCMURRAY C	1 281	0.50	0.05	609			37		30 765
MCMURRAY D	22	0.60	0.05	12			36		200
MCMURRAY E	4	0.50	0.05	2			37		334
MCMURRAY F	37	0.50	0.05	18			37		1 285
NISKU-U IRE-GROSMNT A	5 895	0.40	0.05	2 240			36		91 471
GROSMONT A	6 842	0.50	0.05	3 250			36		73 417
GROSMONT D	19	0.50	0.05	10			37		200
GROSMONT E	790	0.90	0.05	675			37		5 880
GROSMONT F	66	0.50	0.05	31			36		788
LEDUC A	2 982	0.60	0.05	1 700			37		19 106
MANN-DEVONIAN MU#1 TOTAL	21 457	0.50	0.05	10 219	4 407	5 812	37	212 138	
OTHER	545			307	38	269		9 894	
TOTAL-LIEGE	22 002			10 526	4 445	6 081		222 032	
LIMESTONE 033-10W5									
RUNDLE C	1 208	0.85	0.15	873	446	427	39	16 559	583
RUNDLE D	600	0.85	0.15	434	215	219	39	8 460	530
RUNDLE G	704	0.80	0.10	507	116	391	39	15 065	200
RUNDLE H	573	0.75	0.15	366	19	347	39	13 405	200
RUNDLE A	9 688	0.80	0.20	6 200			39		2 086
RUNDLE B	1 860	0.80	0.20	1 190			39		2 044
RUNDLE A & B TOTAL	11 548	0.80	0.20	7 390	3 470	3 920	39	151 430	
RUNDLE E	2 143	0.70	0.20	1 200			39		688
RUNDLE F	362	0.70	0.20	202			39		716
RUNDLE E & F TOTAL	2 505	0.70	0.20	1 402	254	1 148	39	44 313	
TV 34-Q34-11	907	0.70	0.20	508		508	39	19 634	200
WABAMUN A	3 921	0.85	0.25	2 500	965	1 535	38	58 837	1 548
WABAMUN B	2 521	0.50	0.40	757	150	607	38	22 993	1 168
WABAMUN D	624	0.85	0.25	398	33	365	38	13 998	200
NISKU A	205	0.75	0.35	100			37		200
LEDUC A	1 229	0.75	0.35	599			37		200
NISKU A & LEDUC A TOTAL	1 434	0.75	0.35	699	309	390	37	14 539	
NISKU B	675	0.75	0.35	329			37		200

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
										MATERIAL BALANCE
2.32	0.265	0.55	3 230	18	0.924	0.62	529.9	1973	1988	PANALTA ESSO A&S TCPL
4.80	0.213	0.70	8 030	35	0.837	0.66	1 122.9	1971	1989	PANALTA TCPL CONCURRENT PRODUCTION
										PANALTA TCPL CONCURRENT PRODUCTION
3.91	0.309	0.50	900	16	0.982	0.58	213.2	1959	1989	
2.21	0.302	0.50	940	10	0.979	0.57	221.7	1974	1987	
3.43	0.284	0.50	920	10	0.980	0.57	224.2	1979	1987	
3.68	0.287	0.50	890	18	0.982	0.57	299.7	1980	1987	
2.20	0.250	0.80	840	15	0.983	0.57	233.1	1985	1988	
3.65	0.260	0.50	880	17	0.983	0.58	259.1	1980	1989	
1.80	0.310	0.75	880	17	0.982	0.58	285.9	1985	1988	PRODUCTION DECLINE
0.90	0.305	0.45	900	22	0.983	0.55	410.1	1980	1987	
2.67	0.252	0.45	920	8	0.979	0.58	231.1	1986	1989	
14.45	0.201	0.25	920	27	0.983	0.58	264.7	1974	1987	
18.41	0.120	0.45	930	18	0.981	0.58	333.8	1963	1988	
4.60	0.250	0.85	960	17	0.980	0.57	274.2	1975	1988	
11.06	0.161	0.80	920	10	0.980	0.58	241.6	1981	1988	
7.79	0.150	0.80	900	16	0.981	0.58	236.5	1985	1988	
15.38	0.144	0.35	890	17	0.982	0.57	289.6	1980	1988	PRODUCTION DECLINE
								1959	1988	PARAMNT SIMPLOT SOQUIP PROGAS PANALTA A&S UNOCAL PCI OMV CANOXY KANNGAZ
16.59	0.078	0.90	23 780	62	0.875	0.66	2 732.6	1974	1987	TCPL PRODUCTION DECLINE TOP/BASE TVD
15.43	0.063	0.82	26 050	80	0.915	0.67	3 587.3	1975	1988	TCPL MATERIAL BALANCE
29.70	0.060	0.80	31 300	88	0.999	0.62	3 737.0	1977	1989	CNG
27.70	0.055	0.90	25 990	100	0.948	0.65	3 378.8	1987	1989	TCPL TOP/BASE TVD
31.10	0.078	0.88	24 460	83	0.898	0.68	3 013.2	1975	1989	TOP/BASE TVD
7.51	0.069	0.80	24 460	83	0.890	0.70	3 149.2	1975	1989	TOP/BASE TVD
								1975	1989	TCPL
30.17	0.062	0.76	24 660	83	0.899	0.68	3 232.1	1976	1986	TOP/BASE TVD
5.49	0.060	0.70	24 660	83	0.899	0.68	3 395.2	1976	1984	TOP/BASE TVD
								1976	1986	TCPL
45.00	0.050	0.90	25 310	82	0.905	0.69	3 483.1	1986	1989	TOP/BASE TVD
24.13	0.051	0.85	31 160	125	0.979	0.72	3 733.1	1975	1989	TCPL TOP/BASE TVD
20.20	0.053	0.80	31 160	116	0.904	0.81	3 865.8	1976	1984	TCPL
24.30	0.060	0.85	30 440	93	0.939	0.72	3 528.7	1986	1989	TCPL TOP/BASE TVD
8.64	0.060	0.80	28 980	96	0.902	0.78	3 509.8	1976	1978	TOP/BASE TVD
55.69	0.050	0.80	31 890	91	0.903	0.80	3 610.8	1976	1977	TOP/BASE TVD
								1976	1978	TCPL
20.15	0.075	0.80	31 710	88	0.895	0.81	3 842.8	1976	1988	TOP/BASE TVD

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
LIMESTONE 033-10W5 (CONTINUED)									
LEDUC B	954	0.85	0.35	527			37		200
NISKU B & LEDUC B TOTAL	1 629	0.80	0.35	856	194	662	37	24 772	
OTHER	1 681			1 082	191	891		34 127	
TOTAL-LIMESTONE	29 855			17 772	6 362	11 410		438 132	
LINDBERGH 057-05W4									
VIKING A	1 004	0.50	0.05	477	15	462	37	16 942	36 120
OTHER	5 408			3 484	1 087	2 397		88 737	
TOTAL-LINDBERGH	6 412			3 961	1 102	2 859		105 679	
LINK 034-17W4									
TOTAL-LINK	633			396	299	97		3 639	
LITTLE BOW 015-19W4									
UPPER MANNVILLE A	560	0.90	0.10	454	444	10	38	378	300
GLC SS 13-015-20	582	0.85	0.10	446		446	37	16 391	450
OTHER	6 677			4 141	869	3 272		121 812	
TOTAL-LITTLE BOW	7 819			5 041	1 313	3 728		138 581	
LITTLE SMOKY 067-22W5									
TOTAL-LITTLE SMOKY	801			544		544		20 289	
LITTLE SMOKY LAKE (SA) 075-22W5									
TOTAL-LITTLE SMOKY LAKE	79			55		55		2 060	
LIVOCK (SA) 085-23W4									
TOTAL-LIVOCK	2			1		1		37	
LLOYDMINSTER 050-01W4									
COLONY	610	0.60	0.05	348	225	123	35	4 326	4 600
SPARKY DD	510	0.70	0.05	339	19	320	35	11 046	2 724
OTHER	4 127			2 069	569	1 500		53 657	
TOTAL-LLOYDMINSTER	5 247			2 756	813	1 943		69 029	
LOCHEND 027-03W5									
CARDIUM A SOLN	1 232	0.65	0.20	641	143	498	41	20 368	
OTHER	78			44		44		1 840	
TOTAL-LOCHEND	1 310			685	143	542		22 208	
LOCHINVAR (SA) 041-26W4									
TOTAL-LOCHINVAR	149			97		97		3 604	
LOGAN 072-13W4									
TOTAL-LOGAN	32			20		20		739	
LOMOND 018-12W4									
TOTAL-LOMOND	107			61		61		2 331	
LONE 089-04W6									
TOTAL-LONE	87			58		58		2 174	
LONE PINE CREEK 030-28W4									
WABAMUN A	16 256	0.75	0.27	8 900	6 504	2 396	37	87 909	17 024
D-3 A SOLN	557	0.65	0.30	253			35		
D-3 A ASSOC	3 074	0.50	0.33	1 030	1 039	244	35	8 594	1 835
OTHER	579			326	15	311		11 508	
TOTAL-LONE PINE CREEK	20 466			10 509	7 558	2 951		108 011	
LONG COULEE 016-21W4									
GLAUCONITIC I	1 853	0.85	0.20	1 260	1 056	204	38	7 705	3 249
GLAUCONITIC L	1 985	0.80	0.20	1 270	1 167	103	38	3 951	1 306
SUNBURST D	800	0.90	0.15	612	193	419	39	16 194	1 358
SUNBURST G	2 666	0.80	0.25	1 600	1 402	198	38	7 609	3 206
OTHER	4 579			2 673	445	2 228		84 401	
TOTAL-LONG COULEE	11 883			7 415	4 263	3 152		119 860	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
25.30	0.085	0.80	31 930	89	0.905	0.80	3 913.1	1976 1976	1988 1986	TOP/BASE TVD TCPL
0.79	0.240	0.50	2 760	20	0.947	0.57	386.3	1946	1985	PANALTA ESSO DIRECT VECTOR POCO
4.30 5.93	0.195 0.231	0.65 0.70	11 580 12 000	41 38	0.805 0.813	0.67 0.66	1 215.9 1 189.8	1965 1980	1988 1989	TCPL PRODUCTION DECLINE PANALTA TCPL NONCOMMERCIAL OIL
4.30 2.01	0.300 0.290	0.60 0.75	3 050 4 110	19 21	0.943 0.928	0.58 0.58	532.8 611.4	1943 1966	1985 1984	CWNGNUL MATERIAL BALANCE COMPOSITE COLONY RESERVE, SLUSH OIL
						0.75		1961	1986	TCPL
10.46 17.43	0.055 0.083	0.80 0.85	24 410 22 480	83 83	0.878 0.862	0.76 0.78	2 415.9 2 425.0	1955 1963	1989 1985	PROGAS POCO PANALTA TCPL MATERIAL BALANCE TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION, OIL DEPLETED
								1963	1985	TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION, OIL DEPLETED
2.61 1.66 3.79	0.191 0.183 0.185	0.80 0.80 0.65	12 570 10 520 13 140	43 41 43	0.791 0.807 0.773	0.77 0.76 0.75	1 411.9 1 462.4 1 425.7	1974 1967 1982	1987 1987 1989	PANALTA TCPL TCPL PRODUCTION DECLINE A&S AMOCO TCPL MATERIAL BALANCE NONCOMMERCIAL OIL
4.22	0.142	0.60	13 270	44	0.758	0.84	1 446.0	1960	1989	PANALTA TCPL MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
LOOKOUT BUTTE 001-28W4									
RUNDLE A	13 818			5 700	5 530	170	40	6 871	2 858
TOTAL-LOOKOUT BUTTE	13 818			5 700	5 530	170		6 871	
LOON 085-09W5									
TOTAL-LOON	39			26		26		972	
LOSEMAN (SA) 067-02W4									
TOTAL-LOSEMAN	49			27		27		1 005	
LOST 084-01W6									
TOTAL-LOST	51			33		33		1 236	
LOUISE (SA) 064-15W5									
TOTAL-LOUISE	117			74		74		2 933	
LOUSANA 036-21W4									
TOTAL-LOUSANA	74			41		41		1 538	
LOVETT RIVER 047-19W5									
RUNDLE A	1 753	0.50	0.10	789		789	39	30 511	1 142
OTHER	794			518		518		19 764	
TOTAL-LOVETT RIVER	2 547			1 307		1 307		50 275	
LUCKY 061-18W4									
TOTAL-LUCKY	990			659	193	466		17 315	
LUNNFORD 059-03W5									
TOTAL-LUNNFORD	289			189	5	184		7 093	
LYLE 073-18W4									
TOTAL-LYLE	114			65		65		2 403	
LYNDON (SA) 013-30W4									
TOTAL-LYNDON	106			72		72		2 772	
LYNX 062-09W6									
TOTAL-LYNX	1 223			842	308	534		20 712	
MAJEAU 056-04W5									
TOTAL-MAJEAU	2 080			1 415	474	941		37 003	
MAJORVILLE 018-19W4									
UPPER MANNVILLE F	736	0.85	0.10	563	70	493	38	18 842	300
UPPER MANNVILLE K	561	0.75	0.05	400	22	378	38	14 353	150
OTHER	1 987			1 337	259	1 078		40 774	
TOTAL-MAJORVILLE	3 284			2 300	351	1 949		73 969	
MALMO 043-22W4									
ELLERSLIE C ASSOC	490	0.75	0.10	331	49	282	39	10 973	300
D-3 B	1 813	0.85	0.15	1 310	358	952	35	33 139	981
OTHER	1 774			832	160	672		25 946	
TOTAL-MALMO	4 077			2 473	567	1 906		70 058	
MANIR 072-04W6									
WAB 25-072 ASSOC	793	0.80	0.20	507		507	40	20 209	400
OTHER	788			575		575		22 319	
TOTAL-MANIR	1 581			1 082		1 082		42 528	
MANITO 042-20W4									
TOTAL-MANITO	328			221	13	208		7 440	
MANNING (SA) 090-25W5									
TOTAL-MANNING	60			40		40		1 498	
MANNVILLE 051-08W4									
UPPER&MIDDLE VIKING B	1 121	0.50	0.05	533	211	322	37	11 808	12 555
UPPER MANNVILLE C	796	0.70	0.05	529	477	52	37	1 941	2 523
UPPER MANNVILLE F	2 035	0.60	0.05	1 160	531	629	38	24 015	5 522
OTHER	6 360			4 208	1 739	2 469		91 683	
TOTAL-MANNVILLE	10 312			6 430	2 958	3 472		129 447	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
35.16	0.065	0.80	32 850	88	0.936	0.97	3 675.4	1959	1984	TCPL MATERIAL BALANCE PREVIOUS GAS CYCLING
13.72	0.051	0.85	33 770	95	1.011	0.59	3 568.4	1958	1984	PANALTA BER TOP/BASE TVD
10.25 14.00	0.223 0.243	0.75 0.85	12 740 11 930	41 44	0.806 0.828	0.64 0.63	1 390.6 1 358.0	1981 1987	1987 1989	METHON NORCEN ICG
2.90 15.24	0.209 0.093	0.60 0.85	10 210 15 080	67 61	0.851 0.837	0.71 0.74	1 396.6 1 620.1	1983 1959	1988 1987	ATCOR TCPL MATERIAL BALANCE CONCURRENT PRODUCTION A&S TCPL
23.10	0.044	0.75	29 380	80	0.910	0.75	2 736.8	1983	1988	CEL BER
1.94 2.28 3.72	0.197 0.250 0.286	0.50 0.65 0.75	4 470 4 600 4 340	24 28 21	0.916 0.918 0.909	0.59 0.57 0.58	524.2 580.5 588.2	1972 1970 1971	1989 1984 1989	TCPL MATERIAL BALANCE TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
MANNVILLE SOUTH (SA) O49-08W4 TOTAL-MANNVILLE SOUTH	33			21		21		778	
MANNY O76-21W4 TOTAL-MANNY	112			59		59		2 184	
MANDLA O58-02W5 TOTAL-MANDLA	444			295	107	188		7 176	
MANYBERRIES O05-05W4 BOW ISLAND A	789	0.90	0.05	675	555	120	35	4 217	3 743
OTHER	2 895			1 819	577	1 242		44 711	
TOTAL-MANYBERRIES	3 684			2 494	1 132	1 362		48 928	
MANYBERRIES SOUTH (SA) O03-06W4 TOTAL-MANYBERRIES SOUTH	88			67		67		2 468	
MARGIE O74-09W4 TOTAL-MARGIE	73			37		37		1 372	
MARIE O65-02W4 TOTAL-MARIE	692			415	60	355		13 233	
MARION LAKE O37-18W4 TOTAL-MARION LAKE	155			100		100		3 742	
MARKERVILLE O36-02W5 PEKISKO A	2 555	0.80	0.10	1 840	252	1 588	40	63 409	2 978
OTHER	1 102			772	102	670		26 856	
TOTAL-MARKERVILLE	3 657			2 612	354	2 258		90 265	
MARLBORO O55-19W5 LEDUC A	6 123	0.70	0.30	3 000	1 258	1 742	37	64 872	679
TOTAL-MARLBORO	6 123			3 000	1 258	1 742		64 872	
MARLOWE (SA) 122-22W5 TOTAL-MARLOWE	15			10		10		354	
MARSH (SA) O54-25W5 TOTAL-MARSH	251			192		192		7 423	
MARTEN O76-04W5 TOTAL-MARTEN	248			162		162		6 042	
MARTEN HILLS O75-25W4 WABISKAW C	622	0.80	0.05	473	93	380	37	14 079	3 089
WABISKAW A	23 553	0.80	0.05	17 900			37		89 432
WABAMUN A	9 069	0.65	0.05	5 600			37		32 374
WBSK A & WAB A TOTAL	32 622	0.75	0.05	23 500	16 457	7 043	37	261 436	
WABAMUN C	1 404	0.75	0.05	1 000	3	997	37	36 899	8 284
OTHER	2 279			1 327	127	1 200		44 489	
TOTAL-MARTEN HILLS	36 927			26 300	16 680	9 620		356 903	
MARWAYNE O53-03W4 TOTAL-MARWAYNE	401			267		267		9 758	
MATZIWIN O24-14W4 MILK RIVER A	2 827	0.70	0.05	1 880			36		18 414
MEDICINE HAT A	2 106	0.70	0.03	1 430			36		16 605
MEDICINE HAT C	68	0.50	0.03	33			36		2 328
MEDICINE HAT D	208	0.50	0.03	101			36		5 922
SECOND WHITE SPECKS A	84	0.75	0.05	60			36		1 278
SE ALTA GAS SYS(MU) TOTAL	5 293	0.70	0.05	3 504	1 134	2 370	36	86 434	
OTHER	1 133			745	281	464		17 696	
TOTAL-MATZIWIN	6 426			4 249	1 415	2 834		104 130	
MAY (SA) O75-11W4 TOTAL-MAY	17			13		13		485	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.67	0.290	0.70	5 930	27	0.902	0.59	795.8	1947	1989	CMG MATERIAL BALANCE
9.44	0.067	0.75	18 220	76	0.821	0.74	2 272.6	1976	1989	PROGAS ESSO POCO A&S KANNGAZ
59.46	0.068	0.90	34 520	130	0.987	0.73	3 688.0	1965	1987	A&S MATERIAL BALANCE
4.07	0.287	0.60	2 960	35	0.952	0.56	794.3	1971	1975	DIRECT TCPL
4.46	0.278	0.65	2 700	27	0.951	0.56	685.8	1961	1985	MATERIAL BALANCE
11.39	0.138	0.55	2 710	28	0.952	0.57	712.8	1961	1982	
4.66	0.211	0.65	2 740	35	0.954	0.57	775.4	1966	1987	PANALTA VECTOR TCPL
6.05	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION
2.94	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	DECLINE
0.74	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.1
0.89	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.3
0.85	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	PART OF MED HAT POOL NO.4
								1987	1987	PART OF 2WS POOL NO.1
								1904	1986	PROGAS PANALTA CNG TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
MCADAM (SA) 082-14W4 TOTAL-MCADAM	13			7		7		258	
MCGREGOR 017-20W4 TOTAL-MCGREGOR	1 145			789	17	772		28 054	
MCGUFFIN (SA) 066-12W4 TOTAL-MCGUFFIN	359			198		198		7 276	
MCKINLEY 065-22W5 TOTAL-MCKINLEY	514			346	35	311		12 369	
MCLAUGHLIN 046-01W4 TOTAL-MCLAUGHLIN	145			90	21	69		2 303	
MCLEOD 054-14W5 CARDIUM A SOLN	13	0.60	0.10	7b			38		
CARDIUM A ASSOC	1 201	0.75	0.10	811b	622b	196	38	7 477	5 086
GETHING C	1 629	0.75	0.10	1 100	9	1 091	40	44 120	1 648
GETHING D	970	0.85	0.15	701	50	651	40	26 307	1 694
GETHING O	697	0.75	0.10	470		470	40	18 903	1 050
GETHING H	1 032	0.60	0.10	557			40		1 629
ROCK CREEK A	2 381	0.70	0.10	1 500			40		3 138
GETHING H & ROCK CK A TOTAL	3 413	0.65	0.10	2 057	162	1 895	42	79 003	
WINT 31-054-14	988	0.90	0.40	533		533	42	22 530	200
OTHER	1 753			1 179	46	1 133		44 257	
TOTAL-MCLEOD	10 664			6 858	889	5 969		242 597	
MCMILLAN 074-17W4 TOTAL-MCMILLAN	766			460	385	75		2 792	
MCMULLEN 077-26W4 WABISKAW A		0.65	0.05				37		1 239
WABAMUN A		0.65	0.05				37		200
WBSK A & WAB A TOTAL	514	0.65	0.05	317	276	41	37	1 524	
OTHER	134			74		74		2 755	
TOTAL-MCMULLEN	648			391	276	115		4 279	
MEADOW 062-25W4 TOTAL-MEADOW	155			111	5	106		3 985	
MEANDER (SA) 115-21W5 TOTAL-MEANDER	11			7		7		267	
MEANOOK 063-22W4 TOTAL-MEANOOK	1 451			997	593	404		15 308	
MEDALLION 019-27W4 TV 16-019-27	466	0.85	0.15	337		337	39	13 140	200
OTHER	163			110		110		4 213	
TOTAL-MEDALLION	629			447		447		17 353	
MEDICINE HAT 013-03W4 MILK RIVER A	46 016	0.70	0.05	30 600			36		369 798
MEDICINE HAT A	79 302	0.65	0.03	50 000			36		473 775
SECOND WHITE SPECKS P	6	0.80	0.05	5			36		128
SECOND WHITE SPECKS J	413	0.80	0.05	314			36		5 180
LOWER COLORADO SAND A	351	0.75	0.05	250			36		5 560
MEDICINE HAT C	5 360	0.50	0.03	2 600			36		150 927
MEDICINE HAT D	4 948	0.50	0.03	2 400			36		130 618
SECOND WHITE SPECKS A	7 299	0.75	0.05	5 200			36		65 547
SECOND WHITE SPECKS M	11	0.80	0.05	9			36		200
SECOND WHITE SPECKS D	2 106	0.70	0.05	1 400			36		25 752
SECOND WHITE SPECKS K	5	0.75	0.05	4			36		200
SECOND WHITE SPECKS L	13	0.80	0.05	10			37		200
SE ALTA GAS SYS(MU) TOTAL	145 830	0.65	0.05	92 792	70 760	22 032	36	803 066	
SECOND WHITE SPECKS F	505	0.75	0.05	361		361	37	13 177	1 600
BOW ISLAND B	1 267	0.40	0.05	482	436	46	36	1 666	3 540
BOW ISLAND L	526	0.80	0.05	400	384	16	37	594	3 693

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
						0.68		1972	1988	METHON CDNHUNT A&S TCPL CONCURRENT PRODUCTION
4.81	0.095	0.55	9 260	56	0.852	0.68	1 519.3	1972	1988	METHON CDNHUNT A&S TCPL CONCURRENT PRODUCTION
6.08	0.147	0.65	16 710	71	0.812	0.71	2 050.9	1980	1989	A&S NRTHRGE CANOXY
3.92	0.134	0.65	16 450	73	0.806	0.75	2 125.0	1982	1989	A&S CANOXY CDNHUNT
2.99	0.153	0.70	15 650	76	0.834	0.69	2 130.7	1984	1989	POCO NRTHRGE
3.41	0.166	0.70	15 950	70	0.827	0.68	1 958.5	1987	1989	
4.55	0.153	0.65	16 910	70	0.836	0.68	1 983.0	1983	1989	NONCOMMERCIAL OIL
27.76	0.080	0.80	26 480	80	0.767	0.90	2 652.7	1976	1977	A&S POCO NRTHRGE CANOXY
3.61	0.274	0.80	2 830	19	0.944	0.56	543.1	1968	1986	PRODUCTION DECLINE
5.80	0.160	0.60	2 630	19	0.948	0.56	547.9	1968	1986	PRODUCTION DECLINE
								1968	1986	TCPL
10.06	0.143	0.85	18 620	62	0.829	0.71	2 071.0	1956	1988	NORCEN BER
4.92	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
3.88	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1987	PART OF MED HAT POOL NO.1
0.80	0.160	0.60	5 740	19	0.895	0.57	562.8	1978	1987	
1.42	0.150	0.60	5 790	21	0.898	0.57	591.1	1977	1985	
1.13	0.160	0.50	6 520	25	0.890	0.56	753.3	1977	1979	
0.90	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1989	PART OF MED HAT POOL NO.3
0.96	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1989	PART OF MED HAT POOL NO.4
1.44	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	PART OF 2WS POOL NO.1
1.10	0.150	0.60	5 330	19	0.902	0.57	562.4	1981	1983	
1.69	0.171	0.55	4 900	23	0.915	0.58	652.7	1975	1989	
0.90	0.150	0.60	5 790	19	0.894	0.57	550.2	1977	1987	PRODUCTION DECLINE
1.21	0.160	0.55	5 700	20	0.894	0.56	619.6	1977	1981	
								1904	1989	PROGAS PANALTA CWNGNUL POCO PWGE KANNGAZ
1.83	0.216	0.60	5 690	27	0.904	0.56	693.5	1976	1985	ESSO DIRECT CTYMEDH TCPL A&S
1.75	0.286	0.60	6 520	24	0.887	0.57	796.1	1948	1983	TCPL
1.51	0.215	0.70	5 840	23	0.895	0.56	657.7	1977	1989	TCPL MATERIAL BALANCE
										CWNGNUL DIRECT

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
MEDICINE HAT 013-03W4 (CONTINUED)									
BOW ISLAND C	436	0.80	0.05	332	24	308	36	11 208	1 613
OTHER	5 545			3 855	1 312	2 543		91 620	
TOTAL-MEDICINE HAT	154 109			98 222	72 916	25 306		921 331	
MEDICINE LODGE 052-21W5									
CARD SD 20-052-21	498	0.75	0.10	337		337	39	13 231	128
VIKING A	786	0.90	0.10	636	111	525	40	20 822	1 856
WABAMUN A	484	0.80	0.20	310	49	261	38	9 900	200
WAB 16-052-21	517	0.70	0.05	344		344	38	13 038	400
WAB 33-051-21	675	0.85	0.20	459		459	38	17 410	200
OTHER	490			346		346		13 173	
TOTAL-MEDICINE LODGE	3 450			2 432	160	2 272		87 574	
MEDICINE RIVER 039-03W5									
GLAUCONITIC A SOLN	3 794	0.39	0.20	1 184b			41		
GLAUCONITIC A ASSOC	2 201	0.85	0.15	1 590b	710b	2 064	41	83 943	2 614
GLAUCONITIC D		0.75	0.10				40		150
OSTRACOD A ASSOC		0.75	0.15				40		1 268
OSTRACOD A SOLN	220	0.43	0.35	62b			40		
GLAUC D & OSTRACOD A TOTAL	786	0.65	0.20	428b	425b	3	40	119	
OSTRACOD C SOLN	90	0.60	0.45	30b			42		
OSTRACOD C ASSOC	2 533	0.85	0.15	1 830b	1 458b	402	42	16 687	2 733
BASAL QUARTZ D SOLN	29	0.65	0.40	11b			39		
BASAL QUARTZ D ASSOC	403	0.85	0.10	309b	44b	276	39	10 629	829
BASAL QUARTZ B ASSOC	61	0.70	0.10	39			38		175
BASAL QUARTZ B SOLN	1 385	0.52	0.45	396			38		
BASAL QUARTZ B ASSOC	820	0.80	0.10	590			38		711
BASAL QUARTZ B ASSOC	13	0.70	0.10	8			38		32
BASAL QUARTZ B TOTAL	2 279	0.65	0.30	1 033	204	829	38	31 859	
JURASSIC A ASSOC	176	0.70	0.15	105			41		372
JURASSIC A SOLN	1 000	0.38	0.50	190			41		
JURASSIC A ASSOC	32	0.70	0.15	19			41		32
JURASSIC A TOTAL	1 208	0.45	0.40	314	139	175	41	7 093	
JURASSIC D ASSOC	351	0.90	0.15	269			41		318
JURASSIC D SOLN	1 200	0.40	0.30	336			41		
JURASSIC D ASSOC	17	0.90	0.15	13			41		16
JURASSIC D ASSOC	55	0.90	0.15	43			41		32
JURASSIC D TOTAL	1 623	0.55	0.25	661	171	490	41	19 859	
JURASSIC M	595	0.75	0.10	401	204	197	38	7 543	200
PEKISKD N ASSOC	1 889	0.80	0.10	1 360		1 360	39	53 421	1 521
PEKISKD P	568	0.85	0.11	430	425	5	38	189	1 301
PEKISKD T	905	0.85	0.15	654	107	547	42	23 149	395
OTHER	11 471			6 165	1 562	4 603		182 392	
TOTAL-MEDICINE RIVER	30 374			16 400	5 449	10 951		436 883	
MEDLEY (SA) 068-02W4									
TOTAL-MEDLEY	367			218		218		8 038	
MEEKWAP 066-15W5									
D-2 A SOLN	1 446	0.45	0.45	358	166	192	41	7 837	
TOTAL-MEEKWAP	1 446			358	166	192		7 837	
MEGA 101-07W6									
TOTAL-MEGA	122			73		73		2 743	
MEIKLE (SA) 099-17W5									
TOTAL-MEIKLE	44			25		25		928	
MELLOWDALE 060-03W5									
TOTAL-MELLOWDALE	188			127	34	93		3 621	
MEYER 070-25W4									
TOTAL-MEYER	996			615	199	416		15 649	
MICHICHI 030-18W4									
BELLY RIVER F	603	0.70	0.05	401	293	108	37	3 987	2 005
UPPER MANNVILLE B	136	0.75	0.10	92			38		888

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.24	0.234	0.70	6 890	27	0.887	0.57	718.1	1955	1978	TCPL PART OF BOW ISL POOL NO.1
10.40	0.210	0.85	21 290	72	0.837	0.73	2 395.6	1988	1989	PROGAS PANALTA TOP/BASE TVD PROGAS TOP/BASE TVD PROGAS
1.55	0.120	0.80	35 920	85	1.002	0.74	2 862.7	1975	1978	
12.95	0.100	0.75	36 300	127	1.035	0.66	3 771.3	1977	1982	
7.32	0.090	0.75	36 900	107	1.055	0.57	3 718.6	1977	1982	
19.83	0.090	0.75	36 900	127	1.040	0.66	3 920.9	1979	1982	
						0.76		1964	1989	PROGAS PANALTA ESSO DIRECT TCPL A&S CONCURRENT PRODUCTION
3.35	0.130	0.75	26 150	66	0.851	0.76	2 203.0	1964	1989	PROGAS PANALTA ESSO DIRECT TCPL A&S CONCURRENT PRODUCTION
4.27	0.110	0.80	18 460	69	0.812	0.73	2 073.6	1961	1988	PRODUCTION DECLINE
1.74	0.139	0.65	18 510	63	0.835	0.68	2 074.2	1961	1988	PRODUCTION DECLINE CONCURRENT PRODUCTION
						0.68		1961	1988	PRODUCTION DECLINE CONCURRENT PRODUCTION
						0.72		1963	1989	CONCURRENT PRODUCTION
3.18	0.127	0.75	22 130	68	0.816	0.72	2 283.6	1963	1989	PROGAS PANALTA ESSO DIRECT TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
3.02	0.139	0.70	15 620	60	0.807	0.71	2 094.6	1962	1989	PROGAS PANALTA ESSO DIRECT TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
2.18	0.138	0.70	16 130	65	0.821	0.70	2 161.2	1959	1989	TCPL KANNGAZ OIL POOL DEPLETED
6.79	0.146	0.70	16 130	64	0.819	0.70	2 107.8	1959	1989	TCPL KANNGAZ OIL POOL DEPLETED
2.44	0.146	0.70	16 130	65	0.821	0.71	2 142.6	1959	1986	ASSIGNED WELL 16-20-039-03W5M
2.71	0.151	0.70	16 000	63	0.822	0.68	2 131.2	1956	1988	GULF TCPL
5.49	0.157	0.70	16 000	63	0.822	0.68	2 120.2	1956	1988	GULF A&S TCPL
6.55	0.145	0.70	16 130	63	0.822	0.68	2 125.7	1959	1987	
6.19	0.145	0.70	16 130	63	0.822	0.68	2 118.4	1959	1986	
10.19	0.145	0.70	16 130	63	0.822	0.68	2 118.4	1959	1986	
13.60	0.170	0.80	15 630	63	0.824	0.69	2 161.0	1959	1987	
9.41	0.110	0.75	15 980	71	0.826	0.71	2 133.9	1963	1982	TCPL KANNGAZ
10.85	0.098	0.75	16 380	59	0.816	0.70	2 119.0	1963	1980	TCPL KANNGAZ
17.07	0.099	0.80	15 030	59	0.760	0.73	2 156.4	1982	1988	TCPL PRODUCTION DECLINE
						0.75		1966	1988	A&S
4.17	0.287	0.55	3 060	24	0.944	0.56	627.5	1980	1989	PANALTA A&S KANNGAZ PRODUCTION DECLINE
1.62	0.172	0.50	9 710	38	0.810	0.68	1 311.7	1968	1985	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
MICHICHI 030-18W4 (CONTINUED)									
LOWER MANNVILLE E	391	0.85	0.10	299			38		911
U MANN B & L MANN E TOTAL	527	0.80	0.10	391	94	297	38	11 322	
LOWER MANNVILLE B SOLN	17	0.65	0.10	10 ^b			40		
LOWER MANNVILLE B ASSOC	742	0.80	0.10	535 ^b	86 ^b	459	40	18 131	1 796
OTHER	2 244			1 402	335	1 067		40 929	
TOTAL-MICHICHI	4 133			2 739	808	1 931		74 369	
MIKWAN 036-23W4									
VIKING B	1 510	0.65	0.10	884	639	245	39	9 455	8 256
OTHER	5 971			3 842	952	2 890		110 310	
TOTAL-MIKWAN	7 481			4 726	1 591	3 135		119 765	
MILLIGAN (SA) 097-13W6									
TOTAL-MILLIGAN	173			112		112		4 122	
MILLS 069-11W4									
TOTAL-MILLS	330			163	128	35		1 292	
MIL0 019-23W4									
TOTAL-MIL0	346			234	59	175		6 239	
MINEHEAD 049-19W5									
CARDIUM C	3 429	0.70	0.20	1 920	194	1 726	40	69 748	2 837
CARDIUM D	443	0.90	0.20	319			40		400
CARDIUM E	371	0.90	0.20	267			41		300
CARDIUM D&E TOTAL	814	0.90	0.10	660		660	40	26 697	
SW HL 049-19	7 143	0.50	0.30	2 500		2 500	37	91 800	3 951
OTHER	351			207	4	203		8 078	
TOTAL-MINEHEAD	11 737			5 287	198	5 089		196 323	
MINNEHIK-BUCK LAKE 046-06W5									
ELLERSLIE A	21	0.80	0.10	15			40		150
JURASSIC A	723	0.90	0.15	553			40		1 844
ELRSL A & JUR A TOTAL	744	0.90	0.15	568	114	454	40	18 224	
PEKISKO A	28 105	0.85	0.10	21 500	16 649	4 851	40	195 495	27 878
BNFF 27-045-04	397	0.90	0.10	321		321	39	12 606	200
OTHER	2 755			1 637	273	1 364		54 375	
TOTAL-MINNEHIK-BUCK LAKE	32 001			24 026	17 036	6 990		280 700	
MINNOW 057-05W6									
TOTAL-MINNOW	98			67		67		2 494	
MIRAGE 079-07W6									
TOTAL-MIRAGE	338			234	10	224		8 215	
MISTAHAE 079-01W5									
TOTAL-MISTAHAE	177			109		109		4 054	
MISTY 033-05W4									
TOTAL-MISTY	559			369	42	327		12 122	
MITCHELL (SA) 049-20W5									
TOTAL-MITCHELL	254			181		181		6 092	
MITTUE 071-04W5									
VIKING B	571	0.70	0.05	380	137	243	38	9 151	200
WABISKAW D	627	0.60	0.05	357	195	161	37	5 994	2 327
GILWOOD A ASSOC	67	0.75	0.10	45 ^b			35		327
GILWOOD A SOLN	12 535	0.52	0.25	4 889 ^b			35		
GILWOOD A ASSOC	117	0.75	0.10	79 ^b			36		200
GILWOOD A ASSOC	66	0.80	0.25	40 ^b			39		200
GILWOOD A ASSOC	59	0.80	0.20	38 ^b			41		200
GILWOOD A ASSOC	172	0.80	0.20	110 ^b			38		200
GILWOOD A ASSOC	47	0.75	0.10	32 ^b			33		200
GILWOOD A	26	0.70	0.10	16 ^b			35		200
GILWOOD A TOTAL	13 089	0.55	0.25	5 249 ^b	3 817 ^b	1 432	36	50 994	
OTHER	1 417			917	273	644		23 861	
TOTAL-MITTUE	15 704			6 903	4 423	2 480		90 000	
MOBERLY (SA) 058-04W6									
TOTAL-MOBERLY	478			347		347		13 383	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
4.63	0.142	0.60	9 810	41	0.816	0.68	1 322.6	1975	1985	A&S TCPL POCO KANNGAZ CONCURRENT PRODUCTION POCO KANNGAZ CONCURRENT PRODUCTION
4.68	0.159	0.55	9 490	48	0.833	0.67	1 313.0	1968	1986	
								1980	1989	
2.24	0.132	0.55	7 110	49	0.875	0.66	1 389.6	1968	1987	TRITON CNG TCPL MATERIAL BALANCE
5.01	0.133	0.80	23 670	73	0.858	0.69	2 419.6	1966	1989	PANALTA CDNHUNT TCPL DEEP CUT SL DEEP CUT SL DEEP CUT SL ESSO TCPL DEEP CUT SL PANALTA TCPL BER
4.25	0.136	0.85	23 270	72	0.851	0.70	2 367.8	1968	1989	
5.55	0.118	0.85	22 500	71	0.838	0.71	2 346.2	1987	1989	
								1968	1989	
12.00	0.062	0.90	42 920	146	1.079	0.73	4 387.6	1973	1982	
0.80	0.100	0.85	19 463	58	0.803	0.70	2 081.4	1982	1988	PROGAS PANALTA TRITON A&S ATCOR PROGAS CANST A&S MATERIAL BALANCE
2.39	0.111	0.80	18 950	82	0.822	0.78	2 037.9	1980	1989	
								1980	1989	
7.82	0.092	0.75	17 090	85	0.850	0.72	2 110.6	1952	1987	
15.00	0.090	0.70	19 250	55	0.795	0.71	2 070.0	1981	1983	
7.80	0.300	0.85	2 980	23	0.944	0.55	438.8	1986	1989	PRODUCTION DECLINE ATCOR MATERIAL BALANCE CONCURRENT PRODUCTION CONCURRENT PRODUCTION ASSIGNED WELL 10-23-069-03W5M ASSIGNED WELL 02-13-069-03W5M ASSIGNED WELL 02-36-068-03W5M ASSIGNED WELL 06-31-068-02W5M ASSIGNED WELL 10-27-069-03W5M TCPL CONCURRENT PRODUCTION
1.82	0.246	0.70	3 590	29	0.937	0.56	632.0	1977	1988	
1.37	0.130	0.75	15 860	69	0.855	0.71	1 659.3	1964	1986	
						0.71		1964	1986	
4.10	0.170	0.55	14 180	51	0.817	0.72	1 662.9	1964	1983	
1.85	0.130	0.65	17 370	60	0.702	0.92	1 665.1	1964	1983	
2.30	0.080	0.75	17 390	52	0.707	0.84	1 676.3	1964	1983	
4.20	0.150	0.65	17 930	60	0.730	0.89	1 677.6	1964	1983	
1.20	0.170	0.65	17 310	51	0.856	0.70	1 680.8	1964	1984	
1.20	0.120	0.70	12 080	45	0.824	0.70	1 670.3	1964	1988	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
MONITOR 034-04W4									
UPPER MANNVILLE A	1 115	0.80	0.10	803			37		4 659
UPPER MANNVILLE C	29	0.75	0.10	20			36		150
UPPER MANNVILLE A & C TOTAL	1 144	0.80	0.10	823	155	668	37	24 502	
OTHER	531			355	74	281		10 138	
TOTAL-MONITOR	1 675			1 178	229	949		34 640	
MONTAG (SA) 084-06W6									
TOTAL-MONTAG	19			13		13		492	
MONTGOMERY 012-28W4									
TOTAL-MONTGOMERY	239			157		157		6 115	
MOON CREEK (SA) 059-05W6									
TOTAL-MOON CREEK	252			201		201		6 916	
MOONEY 072-07W5									
TOTAL-MOONEY	131			88		88		2 729	
MOONSHINE 058-01W4									
TOTAL-MOONSHINE	2 434			1 530	217	1 313		47 878	
MOORE 067-04W4									
TOTAL-MOORE	931			513	4	509		18 890	
MOOSE 023-06W5									
RUNDLE A	4 888	0.60	0.25	2 200	276	1 924	40	76 652	2 657
RUNDLE B	2 082	0.60	0.20	999	273	726	40	28 902	440
WAB 05-023-06	1 013	0.75	0.40	456		456	39	17 693	440
OTHER	1 381			229		229		8 104	
TOTAL-MOOSE	9 364			3 884	549	3 335		131 351	
MORGAN 051-04W4									
TOTAL-MORGAN	586			383	5	378		13 955	
MORINVILLE 055-25W4									
LOWER MANNVILLE A SOLN	8	0.60	0.05	5b			38		
LOWER MANNVILLE A ASSOC	808	0.80	0.10	581b	582b	4	38	152	2 462
LOWER MANNVILLE E	482	0.85	0.05	390	362	28	38	1 064	1 573
OTHER	3 386			2 197	966	1 231		46 901	
TOTAL-MORINVILLE	4 684			3 173	1 910	1 263		48 117	
MORKILL (SA) 054-10W5									
TOTAL-MORKILL	19			10		10		377	
MORLEY 026-07W5									
TOTAL-MORLEY	316			174	174				
MORNINGSIDE 042-28W4									
TOTAL-MORNINGSIDE	1 161			759	116	643		25 136	
MORSE (SA) 064-10W5									
TOTAL-MORSE	285			192		192		7 254	
MOSES (SA) 097-12W5									
TOTAL-MOSES	4			2		2		75	
MOSSLEIGH 021-24W4									
TOTAL-MOSSLEIGH	153			105	29	76		2 903	
MOUNTAIN 047-22W5									
TRIASSIC A	573	0.75	0.10	387	231	156	39	6 070	200
TRIASSIC C	1 027	0.75	0.10	693	405	288	39	11 206	440
TURNER VALLEY A	480	0.75	0.10	324	68	256	38	9 828	440
OTHER	1 365			958	248	710		27 638	
TOTAL-MOUNTAIN	3 445			2 362	952	1 410		54 742	
MULLIGAN 081-08W6									
TOTAL-MULLIGAN	927			617	63	554		20 822	
MURIEL LAKE 059-04W4									
MANNVILLE A	396	0.65	0.05	244			37		2 126
MANNVILLE A	190	0.70	0.05	126			37		1 794

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.53 1.85	0.299 0.280	0.70 0.50	6 830 6 780	27 27	0.866 0.866	0.63 0.64	800.2 811.4	1974 1977 1974	1985 1988 1985	TCPL
24.98 60.00 29.05	0.060 0.065 0.050	0.75 0.75 0.85	12 980 15 500 14 520	42 68 48	0.716 0.799 0.690	0.80 0.75 0.82	2 204.8 2 585.2 2 555.0	1960 1978 1977	1984 1989 1989	PROGAS TCPL PROGAS TCPL TOP/BASE TVD PROGAS TCPL TOP/BASE TVD
4.91 4.27	0.220 0.181	0.70 0.70	7 940 8 000	46 46	0.865 0.874	0.67 0.64	1 101.2 1 082.0	1952 1952 1951	1986 1986 1982	PRODUCTION DECLINE CONCURRENT PRODUCTION PRODUCTION DECLINE CONCURRENT PRODUCTION PRODUCTION DECLINE
6.35 8.40 17.50	0.078 0.070 0.030	0.80 0.75 0.90	28 270 29 220 29 460	96 96 99	0.954 0.961 0.975	0.64 0.64 0.63	3 253.4 3 225.0 3 342.5	1977 1980 1980	1989 1989 1984	PANALTA PRODUCTION DECLINE PANALTA PRODUCTION DECLINE TOP/BASE TVD PANALTA
1.71 1.87	0.300 0.250	0.55 0.70	2 860 3 100	16 17	0.942 0.938	0.57 0.56	389.8 408.4	1952 1952	1980 1977	MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	RAW GAS			MARKETABLE GAS					AREA ha
	INITIAL VOLUME IN PLACE	POOL RECOVERY	SURFACE LOSS	INITIAL ESTABLISHED RESERVES	NET CUMULATIVE PRODUCTION	REMAINING ESTABLISHED RESERVES	GROSS HEAT VALUE	REMAINING ENERGY CONTENT	
	10 ⁶ m ³	frac	frac	10 ⁶ m ³	10 ⁶ m ³	10 ⁶ m ³	MJ/m ³	TJ	
MURIEL LAKE 059-04W4 (CONTINUED)									
MANNVILLE A TOTAL	586	0.65	0.05	370	247	123	37	4 547	
OTHER	133			79	1	78		2 906	
TOTAL-MURIEL LAKE	719			449	248	201		7 453	
MUSIDORA 052-10W4									
TOTAL-MUSIDORA	695			495	178	317		11 712	
MUSKIKI (SA) 044-19W5									
TOTAL-MUSKIKI	148			63		63		2 386	
MUSKWA (SA) 085-25W4									
TOTAL-MUSKWA	16			10		10		369	
MUSREAU 062-06W6									
TOTAL-MUSREAU	646			455	126	329		13 036	
MYSTERY 060-07W5									
TOTAL-MYSTERY	53			35		35		1 323	
NAMAKA 022-24W4									
TOTAL-NAMAKA	385			243		243		9 202	
NAMEPI CREEK (SA) 058-21W4									
TOTAL-NAMEPI CREEK	164			108		108		4 025	
NARRAWAY 064-12W6									
BELL 03-063-11	462	0.80	0.05	352		352	37	13 108	440
OTHER	73			55		55		2 097	
TOTAL-NARRAWAY	535			407		407		15 205	
NAYLOR (SA) 097-25W5									
TOTAL-NAYLOR	31			20		20		763	
NEERLANDIA 061-05W5									
ELLERSLIE D	485	0.75	0.05	346	34	312	37	11 694	1 179
OTHER	645			431	95	336		12 921	
TOTAL-NEERLANDIA	1 130			777	129	648		24 615	
NEGUS (SA) 060-26W5									
TOTAL-NEGUS	79			57		57		2 271	
NELSON 044-25W4									
TOTAL-NELSON	893			563	5	558		21 380	
NESTOW 060-24W4									
TOTAL-NESTOW	1 741			1 170	578	592		22 004	
NETOOK 063-10W6									
TOTAL-NETOOK	822			571		571		21 713	
NEVIS 039-22W4									
EDMONTON D	720	0.50	0.05	342	137	205	37	7 538	13 090
BELLY RIVER C	502	0.65	0.05	929	333	596	37	22 046	9 000
BLAIRMORE A	746	0.70	0.10	1 100	20	1 080	39	41 872	4 189
DEVONIAN ASSOC		0.55	0.15				37		6 364
DEVONIAN ASSOC		0.55	0.15				35		13 222
DEVONIAN TOTAL	36 749	0.55	0.15	17 180	17 124	56	36	2 020	
OTHER	3 712			2 310	240	2 070		78 480	
TOTAL-NEVIS	44 429			21 861	17 854	4 007		151 956	
NEW NORWAY 044-22W4									
TOTAL-NEW NORWAY	707			352	97	255		9 589	
NEWAND 065-04W6									
BLUESKY A	1 507	0.75	0.15	961	99	862	41	34 911	3 862
OTHER	234			160	89	71		2 851	
TOTAL-NEWAND	1 741			1 121	188	933		37 762	
NEWBROOK 062-20W4									
TOTAL-NEWBROOK	2 354			1 463	477	986		37 179	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
								1952	1980	DIRECT TRITON
9.87	0.075	0.75	31 030	171	1.050	0.56	4 349.4	1977	1978	PROGAS BER
3.36	0.200	0.65	8 550	35	0.839	0.66	1 105.3	1982	1988	BVI
6.35	0.273	0.50	630	13	0.987	0.56	314.2	1979	1986	PANALTA DEKALB TCPL PART OF EDMONTON POOL NO.1
5.88	0.245	0.45	2 020	22	0.962	0.56	490.8	1977	1988	PANALTA DEKALB TCPL PART OF BR POOL NO.1
2.70	0.205	0.70	10 360	53	0.840	0.66	1 377.6	1952	1989	PROGAS A&S TCPL NONCOMMERCIAL OIL
18.40	0.062	0.85	16 150	56	0.799	0.76	1 686.4	1952	1987	PRODUCTION DECLINE OIL POOL DEPLETED
15.01	0.076	0.85	16 170	61	0.834	0.74	1 675.8	1952	1987	PRODUCTION DECLINE OIL POOL DEPLETED
								1952	1989	GULF DEKALB TCPL OIL POOL DEPLETED
3.09	0.096	0.70	20 490	94	0.845	0.77	2 339.1	1978	1989	GULF PANALTA

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
NEWBY 081-05W4									
MCMURRAY A	1 098	0.50	0.05	522	116	406	37	15 128	4 446
OTHER	3 849			1 866	43	1 823		67 652	
TOTAL-NEWBY	4 947			2 388	159	2 229		82 780	
NEWELL 017-14W4									
MILK RIVER A	1 438	0.70	0.05	957			36		10 956
MEDICINE HAT A	116	0.70	0.03	79			36		3 783
MEDICINE HAT C	112	0.50	0.03	54			36		2 447
MEDICINE HAT D	38	0.50	0.03	18			36		1 377
SE ALTA GAS SYS (MU) TOTAL	1 704	0.70	0.05	1 108	426	682	36	24 873	
OTHER	140			94	29	65		2 397	
TOTAL-NEWELL	1 844			1 202	455	747		27 270	
NEWTON 058-03W5									
TOTAL-NEWTON	305			206		206		7 024	
NINA (SA) 091-19W5									
TOTAL-NINA	8			5		5		182	
NIOBE 035-27W4									
TOTAL-NIOBE	57			27		27		916	
NIPIN 074-21W4									
TOTAL-NIPIN	2			1		1		37	
NIPISI 079-08W5									
GILWOOD A SOLN	7 644	0.54	0.35	2 683	2 115	568	39	22 072	
OTHER	382			177	-585	762		29 014	
TOTAL-NIPISI	8 026			2 860	1 530	1 330		51 086	
NISKU (SA) 050-25W4									
TOTAL-NISKU	171			112		112		4 345	
NITON 054-13W5									
BASAL QUARTZ A ASSOC	1 317	0.75	0.10	889	388	501	41	20 291	3 284
ROCK CREEK A	551	0.80	0.10	397			40		1 172
BSL QTZ I & ROCK CK A TOTAL	551	0.80	0.10	397	293	104	40	4 156	
ROCK CREEK F SOLN	791	0.39	0.30	216b			40		
ROCK CREEK F ASSOC	10 075	0.75	0.10	6 800b	2 720b	4 296	40	172 871	15 838
OTHER	2 034			1 345	428	917		36 193	
TOTAL-NITON	14 768			9 647	3 829	5 818		233 511	
NIXON 072-16W4									
LOWER MANNVILLE E	977	0.70	0.05	650	216	434	37	16 123	21 247
GROSMONT A	3 200	0.50	0.05	1 520	1 448	72	37	2 658	33 856
OTHER	433			238	65	173		6 424	
TOTAL-NIXON	4 610			2 408	1 729	679		25 205	
NORDEGG 041-17W5									
TRIASSIC A	448	0.85	0.05	362			37		1 192
RUNDLE A	389	0.55	0.05	203			38		746
TRIASSIC A & RUNDLE A TOTAL	837	0.70	0.05	565	383	182	38	6 832	
TOTAL-NORDEGG	837			565	383	182		6 832	
NORMANDVILLE 080-22W5									
MISSISSIPPIAN A	538	0.90	0.10	436	378	58	38	2 196	750
OTHER	1 569			1 093	149	944		35 612	
TOTAL-NORMANDVILLE	2 107			1 529	527	1 002		37 808	
NORRIS 053-18W4									
MIDDLE VIKING A	532	0.80	0.05	405	47	358	37	13 235	8 668
LOWER VIKING A	634	0.80	0.10	456		456	38	17 314	7 037
OTHER	3 238			2 040	662	1 378		51 481	
TOTAL-NORRIS	4 404			2 901	709	2 192		82 030	
NORTH VALLEY 022-04W5									
RUNDLE B	540	0.80	0.20	346		346	39	13 657	200
OTHER	1 103			669		669		26 136	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
7.33	0.284	0.70	1 650	14	0.965	0.56	207.5	1975	1987	TCPL
5.19	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
0.71	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1989	PART OF MED HAT POOL NO.1
1.16	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1988	PART OF MED HAT POOL NO.3
0.70	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.4
								1904	1988	PANALTA TCPL
						0.84		1965	1988	TCPL
2.53	0.138	0.70	16 060	71	0.809	0.72	1 937.7	1965	1988	VECTOR CNWE TCPL KANNGAZ CONCURRENT PRODUCTION
4.97	0.115	0.65	15 910	76	0.841	0.68	1 872.6	1981	1987	PRODUCTION DECLINE
						0.74		1981	1987	UNIGAS DIRECT
								1965	1989	VECTOR DIRECT CNWE TCPL KANNGAZ CONCURRENT PRODUCTION
4.64	0.142	0.60	16 200	77	0.818	0.74	1 925.5	1965	1989	VECTOR DIRECT CNWE TCPL KANNGAZ CONCURRENT PRODUCTION
2.10	0.240	0.40	2 280	24	0.957	0.56	449.5	1969	1986	CWNGNUL
9.76	0.100	0.50	2 340	27	0.958	0.57	460.0	1969	1986	CWNGNUL PRODUCTION DECLINE
5.84	0.058	0.85	12 620	46	0.861	0.57	1 489.6	1960	1982	
10.42	0.045	0.85	12 690	53	0.847	0.62	1 492.9	1960	1984	
								1960	1984	PROGAS TCPL
3.46	0.271	0.65	10 470	36	0.819	0.64	1 047.2	1956	1989	CWNGNUL AEC A&S
0.77	0.252	0.60	4 950	24	0.899	0.61	677.1	1977	1983	TCPL
1.13	0.273	0.55	4 960	25	0.892	0.63	715.1	1972	1983	TCPL
24.20	0.060	0.80	27 120	91	0.911	0.71	3 423.2	1982	1989	TOP/BASE TVD

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
NORTH VALLEY 022-04W5 (CONTINUED)									
TOTAL-NORTH VALLEY	1 643			1 015		1 015		39 793	
NORTHVILLE 052-10W5									
JURASSIC D	605	0.85	0.10	463	26	437	40	17 449	1 605
OTHER	514			346	65	281		11 012	
TOTAL-NORTHVILLE	1 119			809	91	718		28 461	
NOSEHILL 055-20W5									
WINTERBURN A	459	0.75	0.05	327		327	37	12 197	256
OTHER	100			67	45	22		834	
TOTAL-NOSEHILL	559			394	45	349		13 031	
O'CHIESE (SA) 045-10W5									
TOTAL-O'CHIESE	155			99		99		4 051	
OAK 083-06W6									
TOTAL-OAK	179			121		121		4 032	
OBED 054-23W5									
CARD SD 23-054-23	646	0.80	0.15	439		439	40	17 485	200
D-2 A	4 780	0.75	0.35	2 330	5	2 325	37	87 095	1 537
LED 36-054-23	3 636	0.50	0.45	1 000		1 000	37	37 340	706
OTHER	1 205			719		719		27 188	
TOTAL-OBED	10 267			4 488	5	4 483		169 108	
OBERLIN 038-21W4									
MANNVILLE	801	0.70	0.10	505	469	36	39	1 403	789
OTHER	172			110		110		4 311	
TOTAL-OBERLIN	973			615	469	146		5 714	
OCHRE (SA) 089-17W5									
TOTAL-OCHRE	138			98		98		3 677	
OGSTON 089-10W5									
TOTAL-OGSTON	100			57		57		2 134	
OKOTOKS 021-28W4									
WABAMUN B	18 262	0.55	0.55	4 520			37		13 473
WABAMUN B	7 400	0.40	0.50	1 480			37		7 610
WABAMUN B TOTAL	25 662	0.50	0.55	6 000	3 862	2 138	37	79 063	
OTHER	1 032			589	85	504		19 277	
TOTAL-OKOTOKS	26 694			6 589	3 947	2 642		98 340	
OLDMAN 055-21W5									
TRIA SYS 056-21	2 084	0.80	0.10	1 500		1 500	39	57 765	2 485
OTHER	897			591		591		24 341	
TOTAL-OLDMAN	2 981			2 091		2 091		82 106	
OLSON (SA) 056-01W6									
TOTAL-OLSON	69			49		49		1 789	
OMEGA 046-01W4									
TOTAL-OMEGA	193			138		138		4 658	
OPABIN 044-18W5									
TOTAL-OPABIN	122			88		88		3 399	
ORCHID 088-20W4									
TOTAL-ORCHID	15			8		8		294	
ORION 007-07W4									
TOTAL-ORION	432			310	70	240		8 680	
OSBORN 089-07W6									
TOTAL-OSBORN	203			130		130		4 960	
OWLSEYE 059-10W4									
TOTAL-OWLSEYE	851			501	44	457		17 279	
OXLEY (SA) 014-28W4									
TOTAL-OXLEY	296			204		204		8 298	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.82	0.099	0.80	17 160	76	0.828	0.71	1 976.4	1981	1986	
13.26	0.050	0.85	54 030	121	1.226	0.58	3 788.7	1972	1975	
13.20	0.150	0.75	20 800	68	0.798	0.80	2 288.3	1988	1989	TCPL
22.19	0.065	0.80	38 470	135	0.995	0.77	4 008.2	1964	1989	TCPL
27.13	0.080	0.85	38 610	135	0.964	0.82	4 079.5	1966	1988	TCPL
2.26	0.260	0.75	10 070	54	0.829	0.69	1 321.9	1949	1986	A&S PWGE PRODUCTION DECLINE
11.89	0.051	0.80	24 800	80	0.727	0.91	2 656.8	1951	1988	PRODUCTION DECLINE
8.78	0.051	0.80	24 800	80	0.736	0.91	2 656.8	1951	1988	PANALTA ESSO CWNGNUL KANNGAZ TCPL
								1951	1988	
3.83	0.140	0.80	24 540	106	0.942	0.66	2 896.9	1977	1984	PROGAS TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
OYEN 029-05W4									
VIKING C	469	0.80	0.05	356	304	52	37	1 901	200
VIKING A	732	0.60	0.05	417			37		4 323
DETRITAL C	342	0.50	0.05	162			37		757
VIKING A & DETRITAL C TOTAL	1 074	0.55	0.05	579	500	79	37	2 917	
OTHER	1 205			749	414	335		12 376	
TOTAL-OYEN	2 748			1 684	1 218	466		17 194	
PADDLE RIVER 057-08W5									
JURASSIC-DETR-RUND	12 824	0.70	0.12	7 900	6 719	1 181	40	47 476	18 434
RUNDLE ASSOC	1 152	0.85	0.10	881	11	870	40	34 861	4 408
OTHER	1 280			834	16	818		32 848	
TOTAL-PADDLE RIVER	15 256			9 615	6 746	2 869		115 185	
PAGEANT 018-21W4									
GLAUCONITIC A	476	0.85	0.10	365	1	364	37	13 501	150
OTHER	440			283		283		10 552	
TOTAL-PAGEANT	916			648	1	647		24 053	
PAKOWKI LAKE 004-07W4									
BOW ISLAND A	510	0.80	0.05	388	366	22	34	757	6 888
BOW ISLAND B	376	0.85	0.05	304	213	91	37	3 330	1 575
OTHER	776			535	62	473		17 164	
TOTAL-PAKOWKI LAKE	1 662			1 227	641	586		21 251	
PALLISER 062-10W6									
TOTAL-PALLISER	55			37		37		1 488	
PANTHER RIVER 030-10W5									
RUNDLE A	763	0.75	0.15	486	32	454	37	16 725	200
RUNDLE B	782	0.75	0.20	470	10	460	38	17 291	200
RUNDLE D	2 515	0.75	0.30	1 320	27	1 293	37	48 410	400
OTHER	3 395			220		220		7 922	
TOTAL-PANTHER RIVER	7 455			2 496	69	2 427		90 348	
PARADISE 047-02W4									
TOTAL-PARADISE	213			139		139		4 823	
PARFLESH 025-22W4									
TOTAL-PARFLESH	1 079			621	98	523		20 603	
PARKER 070-05W5									
TOTAL-PARKER	158			91	86	5		189	
PARKLAND 015-28W4									
TOTAL-PARKLAND	342			230	38	192		7 369	
PARKLAND NORTHEAST 015-27W4									
LOWER MANNVILLE A	685	0.85	0.10	524	122	402	39	15 851	1 017
MT HD 015-26	725	0.90	0.15	555		555	39	21 656	810
OTHER	1 011			713	295	418		16 476	
TOTAL-PARKLAND NORTHEAST	2 421			1 792	417	1 375		53 983	
PASTECHO (SA) 079-06W5									
TOTAL-PASTECHO	27			17		17		644	
PAXON 065-21W4									
TOTAL-PAXON	64			41		41		1 526	
PEACOCK 014-27W4									
TOTAL-PEACOCK	44			29	14	15		585	
PEAK 119-05W6									
TOTAL-PEAK	33			22		22		763	
PEARL 030-16W4									
TOTAL-PEARL	117			74		74		2 887	
PEAVEY 056-24W4									
TOTAL-PEAVEY	467			293	195	98		3 647	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
5.20 2.07 2.77	0.292 0.301 0.287	0.50 0.55 0.65	6 690 6 670 8 200	32 34 34	0.893 0.895 0.870	0.58 0.57 0.58	784.9 765.3 874.2	1951 1963 1963	1989 1985 1985	TCPL PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE ESSO CANST TCPL
6.20 4.38	0.145 0.076	0.35 0.60	12 230 12 240	60 55	0.823 0.811	0.69 0.70	1 533.9 1 551.4	1957 1956	1987 1977	CWNGNUL PRODUCTION DECLINE CWNGNUL CONCURRENT PRODUCTION, OIL DEPLETED
12.50	0.226	0.80	12 840	43	0.822	0.65	1 430.5	1987	1989	A&S NORCEN
1.27 2.09	0.258 0.277	0.70 0.70	5 540 5 720	27 33	0.911 0.903	0.59 0.59	667.8 702.0	1955 1971	1987 1972	CMG PRODUCTION DECLINE CMG
35.00 48.00 53.90	0.060 0.040 0.047	0.85 0.85 0.85	24 130 30 790 39 280	78 104 102	0.915 0.969 1.020	0.66 0.69 0.74	3 936.6 4 556.5 4 587.4	1958 1973 1978	1989 1984 1988	SHELL SHELL TOP/BASE TVD TOP/BASE TVD
6.12 4.95	0.128 0.123	0.55 0.75	15 560 19 800	65 64	0.837 0.852	0.65 0.66	2 272.8 2 113.3	1979 1953	1989 1979	PROGAS BER

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
PEAVINE (SA) 075-20W5 TOTAL-PEAVINE	11			7		7		262	
PECO 047-15W5									
GETHING A	4 911	0.70	0.20	2 750	874	1 876	41	77 122	5 811
JURASSIC B	1 317	0.75	0.10	889		889	40	35 347	1 971
NISKU A	588	0.85	0.25	375	262	113	42	4 699	128
OTHER	2 454			1 591	149	1 442		58 319	
TOTAL-PECO	9 270			5 605	1 285	4 320		175 487	
PEDIGREE (SA) 101-12W6 TOTAL-PEDIGREE	279			170		170		6 552	
PEDLEY (SA) 053-25W5 TOTAL-PEDLEY	1 441			976		976		39 787	
PEERLESS 079-22W4 TOTAL-PEERLESS	131			82		82		3 063	
PEIGAN 008-08W4 TOTAL-PEIGAN	131			97	12	85		3 059	
PELICAN 079-24W4 TOTAL-PELICAN	680			448		448		16 698	
PEMBINA 048-07W5									
KEY BELLY RIVER B SOLN	1 225	0.49	0.45	330	182	148	39	5 744	
KEY BELLY RIVER A	879	0.80	0.05	668	641	27	38	1 034	2 022
BELLY RIVER SS	460	0.75	0.05	327	92	235	38	9 001	1 175
BELLY RIVER ZZ	594	0.75	0.10	401	306	95	38	3 573	1 846
BELLY RIVER A2A SOLN	57	0.65	0.35	240			39		
BELLY RIVER A2A ASSOC	715	0.75	0.10	4820	2680	238	39	9 361	2 178
CARDIUM SOLN	113 568	0.34	0.47	20 465	12 799	7 666	40	309 706	
LOB GLAUCONITIC A	4 714	0.65	0.06	2 880	2 485	395	40	15 603	10 456
LOB GLAUCONITIC E		0.80	0.05				40		3 354
LOBSTICK GLAUC G		0.80	0.05				40		1 994
LOB GLAUCONITIC E & G TOTAL	5 000	0.80	0.05	3 800	1 642	2 158	40	85 673	
GLAUCONITIC I	3 876	0.70	0.06	2 550			39		4 547
LOBSTICK GLAUC D	144	0.70	0.10	91			39		150
OSTRACOD C	195	0.75	0.10	131			40		700
GLC I, LOB GLC D&OST C TOTAL	4 215	0.70	0.05	2 772	1 442	1 330	39	52 203	
JURASSIC W	644	0.85	0.10	492	60	432	38	16 520	940
NISKU D SOLN	672	0.72	0.15	411	196	215	43	9 148	
NISKU L SOLN	620	0.82	0.20	406	251	155	43	6 595	
NISKU P SOLN	791	0.78	0.25	463	262	201	43	8 553	
NISKU Q SOLN	420	0.84	0.15	300	115	185	43	7 872	
OTHER	24 454			13 448	-2 185	15 633		627 620	
TOTAL-PEMBINA	159 028			47 669	18 556	29 113		1 168 206	
PENDANT D'OREILLE 004-09W4									
BOW ISLAND B	453	0.75	0.05	323	302	21	35	739	4 557
BOW ISLAND		0.85	0.05				35		17 914
BOW ISLAND F		0.85	0.05				35		8 845
BOW ISLAND G		0.85	0.05				35		970
BOW ISLAND H		0.85	0.05				35		1 926
BOW ISLAND J		0.85	0.05				35		200
BOW ISL & BI FGH&J TOTAL	5 201	0.85	0.05	4 200	3 526	674	35	23 550	
MANNVILLE A	1 217	0.90	0.05	1 040	876	164	37	6 058	1 812
MANNVILLE C	1 220	0.85	0.05	985	891	94	37	3 468	1 417
MANNVILLE H	449	0.75	0.05	320	191	129	37	4 765	751
OTHER	1 231			849	359	490		17 534	
TOTAL-PENDANT D'OREILLE	9 771			7 717	6 145	1 572		56 114	
PENHOLD 036-27W4									
LOWER MANNVILLE B	525	0.85	0.05	424	408	16	40	639	930
OTHER	1 760			1 120	81	1 039		40 756	
TOTAL-PENHOLD	2 285			1 544	489	1 055		41 395	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.67 3.77 30.00	0.132 0.112 0.045	0.85 0.75 0.90	38 500 20 700 72 120	102 93 119	1.035 0.885 1.611	0.77 0.67 1.10	3 044.7 3 115.4 3 970.2	1971 1971 1981	1989 1987 1989	ESSO TCPL DEEP CUT SL TCPL DIRECT PRODUCTION DECLINE
5.90 3.30 3.26	0.192 0.201 0.214	0.65 0.60 0.65	7 030 6 580 6 510	38 27 27	0.884 0.868 0.869	0.58 0.60 0.63 0.68	975.6 925.8 883.3	1956 1956 1957 1965 1978	1988 1988 1987 1987 1989	CWNGNUL A&S PRODUCTION DECLINE A&S POCO CWNGNUL KANNGAZ ESSO VECTOR CDNHUNT A&S CONCURRENT PRODUCTION ESSO VECTOR CDNHUNT A&S CONCURRENT PRODUCTION PANALTA ESSO CWNGNUL POCO DEKALB A&S ATCOR KANNGAZ PANALTA CWNGNUL CONHUNT A&S CEL MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE CWNGNUL AMOCO CANST KANNGAZ PART OF GLAUC POOL NO.5 PART OF GLAUC POOL NO.5 PART OF GLAUC POOL NO.5 CANQXY A&S PART OF GLAUC POOL NO.5
3.92	0.135	0.60	9 350	42	0.817	0.68 0.70	1 307.0	1978 1953	1989 1988	
7.60 7.91 4.62	0.139 0.147 0.139	0.50 0.55 0.60	13 680 13 640 13 640	60 56 56	0.818 0.806 0.806	0.67 0.67 0.67	1 789.0 1 705.9 1 692.9	1957 1960 1960 1960	1987 1989 1989 1989	
7.35 8.07 1.89	0.136 0.140 0.139	0.55 0.60 0.65	14 860 13 720 15 870	59 60 64	0.821 0.826 0.823	0.66 0.66 0.67	1 854.0 1 846.4 1 886.1	1958 1960 1970 1958 1978 1978 1978 1979 1980	1987 1988 1988 1988 1988 1988 1987 1986 1987 1986	
4.19	0.117	0.70	20 120	66	0.846	0.67 0.80 0.80 0.80 0.80	2 177.0	1982 1978 1978 1979 1980	1989 1988 1988 1987 1986	A&S
1.26 2.60 1.51 1.34 1.37 2.10	0.221 0.252 0.255 0.200 0.209 0.209	0.75 0.70 0.65 0.65 0.70 0.70	5 100 4 670 4 950 4 850 4 850 5 030	24 24 24 20 20 24	0.912 0.920 0.916 0.913 0.913 0.914	0.58 0.58 0.58 0.58 0.58 0.58	653.9 620.4 681.4 635.6 653.4 669.5	1954 1946 1946 1946 1946 1957 1946 1983	1983 1983 1989 1983 1983 1983 1983	CMG MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE MATERIAL BALANCE CMG CMG MATERIAL BALANCE CMG MATERIAL BALANCE CMG
6.10 7.53 5.38	0.214 0.223 0.186	0.65 0.65 0.70	7 930 8 230 7 940	30 30 30	0.873 0.869 0.873	0.57 0.57 0.57	845.3 818.1 867.6	1961 1965 1971	1971 1984 1988	
10.67	0.116	0.75	16 200	71	0.804	0.75	1 899.9	1971	1983	A&S KANNGAZ MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
PEORIA 076-02W6 TOTAL-PEORIA	379			272		272		10 043	
PEPPERS (SA) 052-24W5 TOTAL-PEPPERS	613			431		431		16 876	
PERRYVALE 064-23W4 TOTAL-PERRYVALE	151			103		103		3 879	
PERT (SA) 125-06W6 TOTAL-PERT	4			3		3		112	
PETER 072-01W5 TOTAL-PETER	193			123		123		4 548	
PETITOT (SA) 122-11W6 TOTAL-PETITOT	141			85		85		3 186	
PHILOMENA 071-09W4 TOTAL-PHILOMENA	718			357	124	233		8 550	
PHILP (SA) 002-12W4 TOTAL-PHILP	224			142		142		5 186	
PHOENIX 039-10W5 TOTAL-PHOENIX	494			324	65	259		10 454	
PICA (SA) 084-05W6 TOTAL-PICA	19			13		13		487	
PINCHER CREEK 004-29W4 RUNDLE A TOTAL-PINCHER CREEK	44 927 44 927	0.30	0.31	9 300 9 300	9 236 9 236	64 64	39	2 485 2 485	5 666
PINE CREEK 057-19W5 CARDIUM H SOLN CARDIUM H & I TOTAL BLUESKY A L MANN 11-057-20 NORDEGG A TRIASSIC A NORDEGG A & TRIASSIC TOTAL ELKTON A WABAMUN WABAMUN B WABAMUN C D-3 OTHER TOTAL-PINE CREEK	1 019 1 019 2 044 494 4 984 44 5 028 681 3 122 7 068 4 232 23 514 3 402 50 604	0.62 0.60 0.75 0.80 0.70 0.70 0.70 0.85 0.90 0.90 0.90 0.35 0.35	0.20 0.20 0.10 0.10 0.10 0.10 0.10 0.15 0.42 0.39 0.32 0.35	506 506 1 380 356 3 140 28 3 168 492 1 630 3 880 2 590 5 350 1 987 21 339	360 178 178 178 178 593 339 1 319 3 198 1 763 5 008 61 12 819	146 37 1 202 356 39 38 2 575 153 311 682 827 342 1 926 8 520	37 37 41 39 39 38 39 38 38 38 37 37 37	5 443 48 969 13 738 100 322 5 852 11 802 25 848 31 343 12 733 74 538 330 588	2 119 300 8 338 200 400 1 619 3 905 663 3 744
PINE NORTHWEST 058-20W5 D-3 A OTHER TOTAL-PINE NORTHWEST	8 991 249 9 240	0.35	0.25	2 360 178 2 538	1 926 63 1 989	434 115 549	37	15 967 4 226 20 193	1 305
PINEDALE 054-16W4 TOTAL-PINEDALE	314			208	28	180		6 702	
PINEHURST 066-10W4 TOTAL-PINEHURST	73			47		47		1 741	
PINGEL 081-07W6 TOTAL-PINGEL	181			129		129		4 882	
PLACID 060-23W5 TOTAL-PLACID	260			178		178		7 072	
PLAIN 053-12W4 UPPER MANNVILLE F UPPER MANNVILLE H UPPER MANNVILLE K UPPER MANNVILLE L UPPER MANNVILLE M	960 95 193 13 9	0.75 0.70 0.70 0.70 0.70	0.05 0.05 0.05 0.05 0.05	684 64 128 9 6	486	198	37 37 37 37 37	7 332	2 140 996 794 150 128

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
107.59	0.040	0.80	34 080	89	0.951	0.77	3 810.0	1948	1983	TCPL PRODUCTION DECLINE GAS CYCLING SCHEME
6.54	0.097	0.80	21 460	94	0.875	0.71	2 533.7	1978	1982	SOLN MU-CARDIUM H&I
7.30	0.142	0.75	23 750	84	0.894	0.70	2 808.1	1974	1982	
4.45	0.097	0.75	21 920	96	0.915	0.68	2 691.0	1961	1989	PROGAS PANALTA ESSO VECTOR KANNGAZ PSR
1.50	0.098	0.80	22 060	94	0.923	0.65	2 547.7	1977	1987	PROGAS
12.50	0.082	0.80	23 230	80	0.902	0.62	2 600.2	1965	1985	TOP/BASE TVD
3.52	0.069	0.85	29 790	99	0.831	0.84	3 070.1	1976	1988	UNIGAS PROGAS PANALTA ESSO A&S PSR TCPL
6.61	0.069	0.85	29 500	99	0.851	0.82	3 118.5	1968	1982	PANALTA
5.05	0.062	0.85	31 220	115	0.918	0.77	3 459.2	1957	1989	ESSO A&S MATERIAL BALANCE
41.46	0.070	0.85	31 550	113	0.913	0.78	3 451.1	1956	1989	ESSO A&S MATERIAL BALANCE
								1958	1989	A&S MATERIAL BALANCE
								1957	1989	ESSO A&S
47.50	0.064	0.90	32 060	116	0.961	0.71	3 250.2	1963	1982	A&S PRODUCTION DECLINE
1.87	0.272	0.60	4 620	24	0.914	0.57	724.6	1968	1989	TCPL PRODUCTION DECLINE
1.26	0.250	0.55	5 170	24	0.895	0.60	647.2	1959	1978	
1.26	0.300	0.55	5 210	24	0.902	0.57	657.8	1959	1982	PRODUCTION DECLINE
1.20	0.210	0.60	5 200	23	0.901	0.57	656.6	1975	1988	
0.90	0.270	0.50	5 170	24	0.903	0.57	672.7	1975	1983	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
PLAIN 053-12W4 (CONTINUED)									
SPARKY B	345	0.80	0.03	268			37		1 745
U MANN HKLM & SPKY B TOTAL	655	0.75	0.05	475	255	220	37	8 219	
UPPER MANNVILLE A	115	0.70	0.05	77			38		581
UPPER MANNVILLE B	64	0.70	0.05	43			38		128
COLONY A	278	0.65	0.05	172			38		424
SPARKY A	134	0.70	0.05	89			37		660
U MN AB, COL A & SPKY TOTAL	591	0.70	0.05	381	107	274	38	10 305	
COLONY F	530	0.85	0.05	428	259	169	37	6 270	2 885
COLONY B	361	0.70	0.05	240			38		1 708
COLONY C	84	0.80	0.05	64			37		150
COLONY B & C TOTAL	445	0.70	0.05	304	69	235	38	8 857	
LOWER MANNVILLE D		0.65	0.05				37		256
NISKU C		0.70	0.05				36		344
L MANN D & NISKU C TOTAL	506	0.70	0.05	336	289	47	37	1 723	
CAMROSE A	1 011	0.75	0.05	720	467	253	37	9 404	4 411
OTHER	5 883			3 911	1 852	2 059		76 837	
TOTAL-PLAIN	10 581			7 239	3 784	3 455		128 947	
PLANTE 055-22W5									
LED 26-055-22	850	0.80	0.40	408		408	37	15 284	200
OTHER	649			465		465		17 643	
TOTAL-PLANTE	1 499			873		873		32 927	
PLEASANT 068-20W4									
TOTAL-PLEASANT	586			386	148	238		8 941	
PLUTO (SA) 044-18W5									
TOTAL-PLUTO	39			26		26		1 021	
POLLOCKVILLE 025-10W4									
ELLERSLIE A	607	0.85	0.05	490	122	368	37	13 730	988
OTHER	374			267	48	219		8 186	
TOTAL-POLLOCKVILLE	981			757	170	587		21 916	
POMME (SA) 115-24W5									
TOTAL-POMME	17			10		10		371	
PONOKA 043-26W4									
TOTAL-PONOKA	49			33		33		1 221	
PONY (SA) 080-08W4									
TOTAL-PONY	18			10		10		374	
PORTAGE 078-17W4									
MCMURRAY-GROSMONT A	1 533	0.60	0.05	874			37		17 399
MCMURRAY-GROSMONT A	1 378	0.50	0.05	655			37		17 420
MCMURRAY-GROSMONT A TOTAL	2 911	0.55	0.05	1 529	1 503	26	37	964	
OTHER	232			120		120		4 455	
TOTAL-PORTAGE	3 143			1 649	1 503	146		5 419	
POUCE COUPE 080-12W6									
PEACE RIVER A	4 816	0.75	0.02	3 540	3 320	220	38	8 312	11 891
KISKATINAW D	314	0.80	0.05	238			37		370
KISKATINAW D	1 053	0.80	0.05	800			38		417
KISKATINAW D TOTAL	1 367	0.80	0.05	1 038	480	558	38	20 975	
KISKATINAW F	806	0.85	0.05	651	317	334	38	12 535	1 344
KISKATINAW G	692	0.80	0.05	526	170	356	38	13 361	612
KISKATINAW H	558	0.85	0.05	450		450	38	17 001	200
KISK 079-12	510	0.70	0.05	339		339	38	12 723	731
OTHER	3 557			2 522	350	2 172		82 021	
TOTAL-POUCE COUPE	12 306			9 066	4 637	4 429		166 928	
POUCE COUPE SOUTH 078-12W6									
PEACE RIVER A	960	0.75	0.03	698	691	7	38	265	6 809
PEACE RIVER B		0.70	0.05				38		5 647
PEACE RIVER B		0.70	0.02				38		587
PEACE RIVER B		0.70	0.02				38		1 265
PEACE RIVER B TOTAL	1 278	0.70	0.05	876	876	< 1	38	-	
GETHING A	526	0.90	0.03	459	459	< 1	38	-	300
CADOMIN E	459	0.80	0.05	349		349	37	13 018	901
BOUNDARY B SOLN	1 226	0.39	0.15	406	69	337	43	14 413	
DOIG B	2 930	0.80	0.10	2 110	376	1 734	39	67 262	2 756

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.53	0.275	0.55	4 900	24	0.908	0.57	673.9	1958	1974	TCPL CWNGNUL TCPL TCPL TCPL MATERIAL BALANCE MATERIAL BALANCE TCPL CWNGNUL TCPL MATERIAL BALANCE
2.40	0.275	0.55	5 100	24	0.899	0.58	647.4	1952	1986	
5.55	0.275	0.60	5 140	24	0.901	0.57	639.2	1959	1986	
2.00	0.275	0.70	4 790	24	0.905	0.58	607.4	1952	1986	
2.60	0.275	0.55	4 900	24	0.907	0.58	665.1	1952	1976	
1.83	0.300	0.65	4 830	21	0.907	0.57	604.3	1970	1978	
2.15	0.275	0.70	4 930	29	0.909	0.58	609.6	1958	1978	
5.55	0.275	0.70	4 960	24	0.906	0.57	603.5	1968	1988	
1.50	0.250	0.60	4 670	24	0.914	0.57	714.8	1970	1985	
4.65	0.180	0.55	4 670	27	0.918	0.57	723.9	1970	1986	
								1970	1985	
2.64	0.150	0.60	4 650	33	0.923	0.57	733.7	1968	1981	
33.30	0.053	0.90	36 760	130	0.970	0.79	3 777.4	1987	1988	BER TOP/BASE TVD
3.35	0.249	0.65	10 100	29	0.840	0.58	996.1	1980	1988	PROGAS
2.68	0.350	0.55	1 700	20	0.966	0.56	358.4	1972	1982	A&S PRODUCTION DECLINE PROGAS AMOCO DIRECT NRTHRGE NRTHRGE A&S NRTHRGE ESSO SHELL MATERIAL BALANCE A&S PANALTA PROGAS ESSO SHELL
15.45	0.120	0.25	1 700	20	0.967	0.57	369.0	1972	1982	
								1972	1982	
6.39	0.181	0.70	4 290	33	0.926	0.57	708.9	1943	1989	
5.93	0.107	0.75	21 360	96	0.923	0.62	2 307.0	1981	1988	
6.02	0.086	0.80	21 450	96	0.921	0.62	2 323.4	1981	1989	
4.56	0.090	0.80	21 450	92	0.915	0.62	2 339.0	1976	1988	
10.34	0.081	0.75	21 490	96	0.920	0.62	2 361.3	1976	1988	
22.46	0.090	0.80	18 790	78	0.883	0.64	2 351.0	1988	1989	
6.12	0.079	0.80	21 550	96	0.920	0.62	2 358.5	1974	1988	
2.02	0.200	0.60	5 600	41	0.914	0.56	978.9	1956	1988	
6.41	0.170	0.70	5 380	44	0.919	0.57	991.7	1953	1989	
1.60	0.159	0.70	5 380	44	0.919	0.57	1 022.1	1953	1989	
2.88	0.170	0.70	5 380	44	0.919	0.57	1 020.7	1953	1989	
6.70	0.145	0.80	13 410	64	0.869	0.61	1 517.1	1958	1986	
3.95	0.146	0.70	13 000	64	0.870	0.62	1 542.0	1979	1982	
						0.79		1980	1989	
8.18	0.098	0.80	17 770	75	0.876	0.62	1 912.4	1977	1986	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
POUCE COUPE SOUTH 078-12W6 (CONTINUED)									
OTHER	2 236			1 531	284	1 247		47 766	
TOTAL-POUCE COUPE SOUTH	9 615			6 429	2 755	3 674		142 724	
PRAIRIE RIVER (SA) 070-14W5									
TOTAL-PRAIRIE RIVER	146			99		99		3 834	
PRESLEY 059-19W5									
TOTAL-PRESLEY	464			340	154	186		7 384	
PRESPATOU (SA) 088-13W6									
TOTAL-PRESPATOU	221			142		142		5 507	
PREVO 039-01W5									
PEKISKD B	1 250	0.60	0.10	675	607	68	40	2 687	604
OTHER	1 901			1 172	346	826		33 465	
TOTAL-PREVO	3 151			1 847	953	894		36 152	
PRINCESS 020-11W4									
MILK RIVER A	11 684	0.70	0.05	7 770			36		87 450
MEDICINE HAT A	6 407	0.70	0.03	4 350			36		83 907
MEDICINE HAT C	736	0.50	0.03	357			36		26 646
MEDICINE HAT D	522	0.50	0.03	253			36		18 374
SECOND WHITE SPECKS A	7 761	0.75	0.05	5 530			36		66 465
SE ALTA GAS SYS(MU) TOTAL	27 110	0.70	0.05	18 260	7 351	10 909	36	397 851	
BASAL MANNVILLE A	506	0.90	0.05	432	141	291	37	10 718	425
BASAL MANNVILLE M	769	0.60	0.05	438	429	9	37	336	739
JEFFERSON B	1 014	0.90	0.20	730	623	107	35	3 769	2 503
OTHER	2 617			1 901	1 140	761		28 295	
TOTAL-PRINCESS	32 016			21 761	9 684	12 077		440 969	
PRITCHARD 061-01W4									
TOTAL-PRITCHARD	30			20	4	16		589	
PROGRESS 078-09W6									
HALFWAY B SOLN	707	0.65	0.10	414	89	325	40	12 906	
HALFWAY P ASSOC	667	0.90	0.10	540		540	41	21 897	574
HALFWAY A	3 987	0.85	0.10	3 050	661	2 389	40	94 915	4 160
DOIG C	673	0.80	0.05	511		511	37	18 856	1 088
BELL 078-09	843	0.75	0.05	600		600	31	18 438	992
BELL 078-09	766	0.75	0.05	546		546	35	19 268	1 194
OTHER	3 558			2 513	130	2 383		92 755	
TOTAL-PROGRESS	11 201			8 174	880	7 294		279 035	
PROVINCE 008-11W4									
TOTAL-PROVINCE	57			40		40		1 423	
PROVOST 037-07W4									
BELLY RIVER B	454	0.70	0.05	302	68	234	37	8 693	2 644
VIKING C ASSOC	50 000	0.75	0.04	36 000b			37		469 193
VIKING C SOLN	2 325	0.12	0.20	223b			37		
VIKING CAK & MANN E TOTAL	52 325	0.70	0.05	36 223b	26 048b	10 175	37	379 528	
VIKING L	651	0.70	0.05	433			36		7 976
VIKING O	29	0.65	0.01	19			37		363
VIKING L & O TOTAL	680	0.70	0.05	452	126	326	36	11 870	
BASAL COLORADO D	457	0.80	0.05	348	32	316	38	11 910	3 606
BASAL COLORADO A	979	0.70	0.05	651			37		5 473
MANNVILLE M	146	0.65	0.05	90			37		679
BSL COLO A & MANN M TOTAL	1 125	0.70	0.05	741	79	662	37	24 706	
MANNVILLE Q	698	0.65	0.05	431	244	187	37	6 883	488
MANNVILLE Z	1 109	0.85	0.10	849	698	151	38	5 771	2 479
UPPER MANNVILLE B ASSOC	379	0.75	0.05	270			36		382
UPPER MANNVILLE B SOLN	376	0.65	0.15	207			36		
UPPER MANNVILLE B ASSOC	9	0.65	0.05	6			36		40
UPPER MANNVILLE B ASSOC	6	0.65	0.05	4			36		43
UPPER MANNVILLE B TOTAL	770	0.70	0.10	487	12	475	36	16 991	
UPPER MANNVILLE AA	830	0.85	0.05	671	506	165	38	6 293	2 486
UPPER MANNVILLE E2E	6 725	0.75	0.10	4 540			38		13 017

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
9.69	0.071	0.60	16 490	61	0.812	0.68	2 013.9	1958	1986	TCPL PRODUCTION DECLINE
5.28	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
1.77	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1982	PART OF MED HAT POOL NO.1
0.70	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.3
0.72	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.4
1.51	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	PART OF 2WS POOL NO.1
6.98	0.200	0.70	10 690	31	0.821	0.62	970.2	1940	1986	PANALTA VECTOR SCEPTRE TCPL
2.79	0.250	0.50	10 800	35	0.832	0.62	995.2	1958	1966	TCPL
4.12	0.105	0.75	10 980	38	0.804	0.81	1 200.0	1940	1977	TCPL MATERIAL BALANCE
									1989	TCPL
4.85	0.165	0.85	16 870	68	0.823	0.64		1981	1986	PANALTA
6.19	0.123	0.75	17 540	75	0.854	0.68	1 652.7	1987	1989	DIRECT
3.95	0.102	0.85	18 940	68	0.875	0.65	1 867.7	1976	1989	PANALTA SHELL ICG
5.70	0.133	0.70	18 940	83	0.945	0.62	1 845.8	1981	1989	PROGAS AMOCO A&S DIRECT CANST
3.94	0.140	0.70	19 230	83	0.924	0.64	2 049.7	1980	1984	SOQUIP METHON
						0.59	2 066.3	1980	1985	SOQUIP METHON
3.60	0.280	0.70	2 340	14	0.952	0.55	306.2	1971	1980	
1.60	0.220	0.38	5 890	29	0.890	0.60	765.0	1952	1985	MATERIAL BALANCE MU - VIKING CAK&MANN E, CONC PROD
						0.60		1952	1985	MATERIAL BALANCE MU - VIKING CAK&MANN E, CONC PROD
								1946	1985	PANALTA ESSO CWNQNL CDNHUNT TCPL KANNGAZ
1.23	0.220	0.50	5 860	33	0.902	0.60	888.1	1952	1987	ATCOR PSR CONCURRENT PRODUCTION
0.88	0.250	0.60	5 800	30	0.894	0.61	929.4	1956	1987	
								1952	1987	
1.10	0.250	0.70	6 310	33	0.890	0.59	983.6	1951	1977	PROGAS TCPL
2.55	0.200	0.55	6 130	34	0.890	0.60	930.8	1963	1989	
2.59	0.190	0.75	5 670	35	0.899	0.62	934.8	1963	1988	
								1963	1989	
3.49	0.289	0.80	6 140	26	0.888	0.59	798.3	1972	1989	TCPL
2.23	0.295	0.80	7 790	33	0.852	0.62	1 063.9	1949	1986	TCPL MATERIAL BALANCE
6.87	0.300	0.80	5 670	25	0.900	0.59	761.2	1973	1988	PANALTA TCPL MATERIAL BALANCE
						0.59		1973	1988	
1.58	0.300	0.80	5 670	24	0.898	0.59	725.6	1973	1979	
0.99	0.300	0.80	5 670	24	0.898	0.59	733.7	1973	1984	
								1973	1988	
2.00	0.223	0.65	9 280	37	0.833	0.64	1 069.5	1975	1989	TCPL
4.71	0.201	0.65	7 820	35	0.860	0.62	1 125.3	1974	1989	CWNQNL RENENER MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
PROVOST 037-07W4 (CONTINUED)									
LOWER MANNVILLE FF	87	0.70	0.10	55			38		528
U MANN E2E&L MANN FF TOTAL	6 812	0.75	0.10	4 595	2 070	2 525	38	95 268	
LOWER MANNVILLE EE	750	0.80	0.05	570	388	182	38	6 887	300
OTHER	17 751			11 557	1 975	9 582		347 405	
TOTAL-PROVOST	83 761			57 226	32 246	24 980		922 205	
PUSKASKAU 074-01W6									
TOTAL-PUSKASKAU	1 252			732		732		29 346	
PYRAMID 105-10W6									
TOTAL-PYRAMID	102			68		68		2 552	
QUEENSTOWN 019-21W4									
TOTAL-QUEENSTOWN	283			196		196		7 440	
QUIGLEY (SA) 083-14W4									
TOTAL-QUIGLEY	2			1		1		37	
QUIRK CREEK 021-04W5									
RUNDLE A	13 000	0.80	0.25	7 800	6 094	1 706	40	68 735	2 250
RUNDLE C	619	0.75	0.25	348	237	111	40	4 422	200
RUNDLE E	2 314	0.50	0.25	868	273	595	40	23 788	400
RUND 15-021-05	802	0.80	0.25	482		482	40	19 511	200
OTHER	280			173		173		6 836	
TOTAL-QUIRK CREEK	17 015			9 671	6 604	3 057		123 292	
RACOSTA 031-11W4									
TOTAL-RACOSTA	656			441	53	388		14 675	
RADWAY 059-20W4									
TOTAL-RADWAY	651			428	2	426		15 862	
RAINBOW 110-06W6									
BLUESKY A	5 954	0.70	0.05	3 960			37		51 456
BLUESKY A	1 108	0.50	0.05	526			37		13 227
BLUESKY A	47	0.50	0.05	23			37		1 259
BLUESKY A	82	0.50	0.05	39			37		1 533
BLUESKY A	7	0.70	0.05	5			37		200
BLUESKY A	17	0.70	0.05	11			37		200
BLUESKY A	4	0.70	0.05	3			37		200
BLUESKY A	24	0.70	0.05	16			37		200
BLUESKY A	29	0.70	0.05	19			37		200
BLUESKY A	9	0.70	0.05	6			37		200
BLUESKY A	54	0.55	0.05	29			38		200
BLUESKY A TOTAL	7 335	0.65	0.05	4 637	1 846	2 791	37	103 546	
SLAVE POINT A	434	0.85	0.10	332	57	275	38	10 359	833
KEG RIVER B SOLN	3 403	0.72	0.30	1 715	1 399	316	39	12 318	
KEG RIVER F SOLN	5 000	0.60	0.40	1 800	1 716	84	43	3 636	
KEG RIVER II SOLN	586	0.75	0.30	308	250	58	41	2 392	
KEG RIVER A SOLN	3 409	0.88	0.30	2 100 ^b			41		
KEG RIVER A ASSOC	1 173	0.90	0.10	950 ^b	-86 ^b	3 136	41	129 893	104
KEG RIVER F ASSOC	916	0.85	0.15	662	-43	705	43	30 512	697
KEG RIVER O SOLN	1 625	0.80	0.25	975 ^b			40		
KEG RIVER O ASSOC		0.75	0.10		7 ^b	968	40	38 807	
KEG RIVER AA SOLN	2 071	0.70	0.40	870 ^b			44		
KEG RIVER AA ASSOC		0.75	0.10		19 ^b	851	44	37 019	
KEG RIVER FFF	800	0.90	0.20	576	375	201	42	8 384	64
OTHER	13 507			6 736	709	6 027		243 409	
TOTAL-RAINBOW	40 259			21 661	6 249	15 412		620 275	
RAINBOW SOUTH 107-09W6									
KEG RIVER N SOLN	795	0.75	0.20	477		477	36	17 396	
KEG RIVER A SOLN	1 007	0.54	0.50	272 ^b			39		

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.59	0.193	0.65	7 680	37	0.852	0.65	1 145.2	1982 1974	1985 1989	PROGAS PANALTA CWNGNUL A&S VECTOR POCO KANNGAZ TCPL ATCOR PANALTA A&S PRODUCTION DECLINE
3.60	0.146	0.60	7 810	35	0.855	0.63	1 126.2	1984	1989	
43.39	0.080	0.80	15 720	49	0.745	0.76	1 921.5	1967	1984	TCPL MATERIAL BALANCE TOP/BASE TVD
22.10	0.070	0.80	18 410	70	0.795	0.77	2 806.5	1975	1989	TCPL PRODUCTION DECLINE
59.25	0.063	0.80	18 550	73	0.787	0.80	2 799.9	1973	1988	TCPL TOP/BASE TVD
33.50	0.080	0.80	18 100	70	0.802	0.76	2 595.8	1975	1982	TCPL
5.32	0.210	0.40	2 520	19	0.948	0.58	335.3	1973	1987	PART OF BLSKY POOL NO.1
3.85	0.210	0.40	2 520	19	0.948	0.58	335.3	1973	1985	PART OF BLSKY POOL NO.1
1.72	0.210	0.40	2 520	19	0.948	0.58	335.3	1973	1985	PART OF BLSKY POOL NO.1
2.45	0.210	0.40	2 520	19	0.948	0.58	335.3	1973	1985	PART OF BLSKY POOL NO.1
1.60	0.210	0.40	2 520	19	0.948	0.59	332.7	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-30-108-02W6M
3.90	0.210	0.40	2 520	19	0.948	0.59	361.5	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 07-03-108-03W6M
1.50	0.120	0.40	2 520	19	0.948	0.59	328.1	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-02-109-03W6M
4.57	0.200	0.50	2 520	19	0.948	0.59	276.5	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-36-110-02W6M
6.90	0.200	0.40	2 520	19	0.948	0.59	485.7	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 03-02-110-08W6M
2.00	0.210	0.40	2 520	19	0.948	0.59	249.6	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-26-111-02W6M
12.90	0.213	0.40	2 440	24	0.951	0.59	445.5	1973	1988	PART OF BLSKY POOL NO.1 ASSIGNED WELL 11-09-109-08W6M
7.04	0.069	0.75	14 760	77	0.838	0.74	1 691.5	1966	1989	PANALTA A&S TCPL CEL PART OF BLSKY POOL NO.1
						0.80		1965	1988	
						0.87		1966	1989	
						0.78		1967	1983	CANST
						0.81		1965	1986	DRY GAS BREAKTHROUGH
59.10	0.110	0.94	17 690	75	0.783	0.81	1 833.7	1965	1986	DRY GAS BREAKTHROUGH
20.16	0.045	0.75	17 100	72	0.730	0.87	1 789.9	1966	1989	
						0.72		1966	1983	GAS BREAKTHROUGH
						0.72		1966	1983	GAS BREAKTHROUGH
						0.80		1967	1988	CONING SECONDARY GAS CAP
						0.80		1967	1988	CONING SECONDARY GAS CAP
122.19	0.046	0.80	17 690	60	0.694	0.93	1 862.0	1966	1989	PRODUCTION DECLINE
						0.68		1978	1989	
						0.72		1965	1986	GPP

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
RAINBOW SOUTH 107-09W6 (CONTINUED)									
KEG RIVER A ASSOC	428	0.85	0.15	309b	350b	231	39	9 115	84
OTHER	7 856			3 664	882	2 782		112 709	
TOTAL-RAINBOW SOUTH	10 086			4 722	1 232	3 490		139 220	
RAINIER 017-15W4									
TOTAL-RAINIER	525			343	42	301		10 829	
RAM (SA) 037-14W5									
TV 21-037-14	1 650	0.75	0.35	805		805	34	27 088	256
OTHER	299			136		136		4 576	
TOTAL-RAM	1 949			941		941		31 664	
RAMBLING 090-07W6									
TOTAL-RAMBLING	34			21		21		781	
RANFURLY 050-12W4									
TOTAL-RANFURLY	1 486			991	454	537		19 940	
RASPBERRY (SA) 066-17W5									
TOTAL-RASPBERRY	81			55		55		2 162	
RATZ (SA) 126-18W5									
TOTAL-RATZ	68			47		47		1 763	
REAGAN 001-19W4									
TOTAL-REAGAN	182			88	32	56		2 010	
RED CAP (SA) 046-20W5									
TOTAL-RED CAP	575			395		395		15 452	
RED COULEE 001-17W4									
TOTAL-RED COULEE	30			21	11	10		386	
RED EARTH 087-08W6									
TOTAL-RED EARTH	452			237		237		8 837	
RED ROCK 063-07W6									
TOTAL-RED ROCK	1 474			1 044	280	764		30 131	
RED WILLOW 040-17W4									
VIKING C	268	0.75	0.05	191			37		3 610
VIKING D	453	0.60	0.05	258			37		4 555
LOWER MANNVILLE I	13	0.75	0.05	10			37		150
VIK CD & L MANN I TOTAL	734	0.65	0.05	459	105	354	37	13 038	
OTHER	3 131			1 998	452	1 546		56 749	
TOTAL-RED WILLOW	3 865			2 457	557	1 900		69 787	
REDFISH 092-08W5									
TOTAL-REDFISH	27			15		15		550	
REDLAND 027-22W4									
UPPER MANNVILLE A	1 022	0.90	0.04	883	779	104	40	4 125	600
OTHER	491			340	246	94		3 592	
TOTAL-REDLAND	1 513			1 223	1 025	198		7 717	
REDWATER 057-21W4									
UPPER VIKING I	307	0.70	0.05	204			38		3 895
MIDDLE VIKING F	6	0.70	0.05	4			38		200
LOWER VIKING L	205	0.70	0.05	137			38		1 314
UVIK I, MVIK F & LVIK TOTAL	518	0.70	0.05	345	103	242	38	9 128	
UPPER VIKING A	2 526	0.80	0.04	1 940b			37		48 349
MIDDLE VIKING A	783	0.80	0.04	601b			38		11 540
LOWER VIKING A ASSOC	329	0.80	0.04	252b			38		2 849
LOWER VIKING A SOLN	104	0.60	0.25	47b			38		
UV A & MV A & LV A TOTAL	3 742	0.80	0.05	2 840b	741b	2 099	38	78 943	
D-3 SOLN									
OTHER	6 831	0.62	0.60	1 694	1 609	85	47	4 005	
TOTAL-REDWATER	3 231			2 094	410	1 684		62 304	
	14 322			6 973	2 863	4 110		154 380	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
31.09	0.098	0.90	18 330	68	0.823	0.72	1 872.8	1965	1986	GPP
28.50	0.092	0.90	37 080	95	1.049	1.25	4 335.6	1988	1989	BER TOP/BASE TVD
1.15	0.148	0.70	5 970	31	0.898	0.59	988.2	1971	1988	PROGAS TCPL CNG
1.31	0.185	0.65	6 100	33	0.897	0.59	991.8	1953	1988	
1.24	0.160	0.50	8 180	36	0.870	0.60	1 130.8	1976	1988	
								1953	1989	
3.34	0.190	0.70	10 670	54	0.819	0.69	1 487.0	1961	1987	CWNGNUL TCPL PRODUCTION DECLINE
1.11	0.229	0.55	5 200	22	0.890	0.60	626.6	1976	1988	TCPL NONCOMMERCIAL OIL PART OF VIK POOL NO.1 PART OF VIK POOL NO.1 PART OF VIK POOL NO.1 CONCURRENT PRODUCTION PART OF VIK POOL NO.1 CONCURRENT PRODUCTION PANALTA CWNGNUL ESSO TCPL KANNGAZ PART OF VIK POOL NO.1 CONCURRENT PRODUCTION CWNGNUL ESSO
0.50	0.170	0.65	5 200	22	0.897	0.58	625.3	1981	1988	
1.73	0.264	0.60	5 270	22	0.892	0.60	647.1	1976	1983	
								1976	1988	
0.81	0.240	0.50	5 240	33	0.906	0.60	703.8	1947	1988	
0.96	0.200	0.60	5 670	33	0.895	0.60	702.3	1947	1988	
0.94	0.220	0.60	5 450	21	0.882	0.60	624.8	1947	1988	
						0.60		1947	1988	
								1947	1988	
						1.05		1948	1988	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
REINE (SA) 081-22W5 TOTAL-REINE	35			23		23		889	
REITA 059-03W4 TOTAL-REITA	172			111	20	91		3 316	
RESDELN (SA) 082-06W4 TOTAL-RESDELN	220			109		109		4 075	
RETLAW 012-18W4 BASAL COLORADO B	466	0.85	0.05	376	300	76	36	2 771	3 898
MANNVILLE Y	1 030	0.85	0.20	701	290	411	38	15 766	328
MANNVILLE B ASSOC		0.90	0.05				38		907
MANNVILLE D		0.90	0.05				38		104
MANNVILLE B & D TOTAL	1 567	0.90	0.05	1 340	814	526	38	19 793	
MANNVILLE G2G ASSOC	599	0.85	0.10	458		458	36	16 676	300
OTHER	8 809			5 802	1 579	4 223		158 176	
TOTAL-RETLAW	12 471			8 677	2 983	5 694		213 182	
RIBSTONE 042-04W4 TOTAL-RIBSTONE	1 153			769	177	592		20 769	
RICH 035-21W4 LOWER MANNVILLE A	1 777	0.75	0.10	1 200	672	528	39	20 339	4 732
LOWER MANNVILLE D	530	0.80	0.10	382	232	150	39	5 775	812
OTHER	1 199			715	182	533		20 213	
TOTAL-RICH	3 506			2 297	1 086	1 211		46 327	
RICHDALE 030-12W4 VIKING A	1 006	0.80	0.05	765			38		9 515
VIKING C	577	0.80	0.05	439			38		4 823
VIKING F	136	0.75	0.05	97			37		440
VIKING A, C & F TOTAL	1 719	0.80	0.05	1 301	689	612	38	23 072	
OTHER	3 514			2 403	791	1 612		60 771	
TOTAL-RICHDALE	5 233			3 704	1 480	2 224		83 843	
RICHMOND 069-19W4 TOTAL-RICHMOND	116			65	55	10		372	
RICINUS 035-08W5 CARDIUM Q SOLN	548	0.85	0.10	419	99	320	41	13 021	
CARDIUM W SOLN	585	0.85	0.25	373	68	305	41	12 651	
CARDIUM A SOLN	2 653	0.85	0.15	1 917b			41		
CARDIUM A ASSOC	8 316	c	c	6 950b	531b	8 336	41	342 526	2 569
CARDIUM B ASSOC	547	c	c	340		340	41	13 906	349
CARDIUM F SOLN	73	0.75	0.30	39b			40		
CARDIUM F ASSOC	2 222	0.80	0.10	1 600b	594b	1 045	40	42 270	827
CARDIUM L SOLN	275	0.85	0.50	117b			41		
CARDIUM L ASSOC	1 425	0.85	0.10	1 090b	-110b	1 317	41	53 404	652
CARDIUM R	960	0.80	0.05	730	231	499	39	19 681	904
CARDIUM NNN	649	0.80	0.15	441		441	41	17 962	350
VIKING A	637	0.75	0.10	430			39		529
VIKING A	1 398	0.75	0.10	944			39		1 495
VIKING A TOTAL	2 035	0.75	0.10	1 374	219	1 155	39	45 599	
VIKING C	908	0.85	0.10	695	15	680	40	27 030	500
VIKING E	606	0.80	0.10	437	16	421	39	16 238	200
VIK SS 01-033-07	793	0.85	0.10	607		607	39	23 819	400
D-3 A	11 668	0.40	0.40	2 800	1 295	1 505	37	56 121	1 561
D-3 B	2 246	0.85	0.45	1 050	215	835	37	31 095	400
OTHER	6 944			4 159	588	3 571		141 751	
TOTAL-RICINUS	43 453			25 138	3 761	21 377		857 074	
RICINUS WEST 036-10W5 D-3 A	49 494	0.90	0.45	24 500	21 036	3 464	38	130 766	2 591
OTHER	454			348	263	85		3 359	
TOTAL-RICINUS WEST	49 948			24 848	21 299	3 549		134 125	
RINGS 080-05W6 TOTAL-RINGS	59			42		42		1 637	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.25	0.183	0.60	8 820	30	0.850	0.61	945.7	1960	1987	A&S TCPL PRODUCTION DECLINE
4.30	0.260	0.90	11 790	35	0.780	0.75	1 073.8	1974	1980	TCPL MATERIAL BALANCE
2.05	0.221	0.70	11 860	35	0.803	0.68	1 083.9	1959	1982	MATERIAL BALANCE
0.80	0.221	0.70	11 860	35	0.803	0.68	1 068.4	1959	1982	MATERIAL BALANCE
7.50	0.248	0.80	11 580	34	0.799	0.69	1 084.9	1959	1982	TCPL CONCURRENT PRODUCTION
								1980	1989	
3.48	0.177	0.65	8 720	59	0.867	0.66	1 429.4	1953	1985	PANALTA TCPL MATERIAL BALANCE
3.31	0.208	0.75	8 580	59	0.869	0.66	1 394.2	1973	1985	PANALTA TCPL MATERIAL BALANCE
1.36	0.197	0.50	7 420	35	0.868	0.61	931.0	1955	1989	
1.59	0.190	0.50	7 490	35	0.873	0.60	940.6	1955	1984	
3.05	0.230	0.55	7 380	29	0.870	0.60	965.0	1970	1983	
								1955	1989	ESSO SCEPTRE TCPL
9.43	0.146	0.90	27 170	77	0.845	0.67		1971	1986	TCPL TOP/BASE TVD
6.70	0.143	0.65	27 060	81	0.863	0.71		1974	1987	TCPL
						0.92		1969	1988	CNG TCPL GAS CYCLING, CONING GAS CAP
						0.92	2 684.1	1969	1988	CNG TCPL GAS CYCLING, CONING GAS CAP
						0.86	2 649.9	1969	1987	A&S TCPL GAS CYCLING
						0.68		1969	1986	TCPL CNG MATERIAL BALANCE CONCURRENT PRODUCTION
10.25	0.132	0.85	14 000	62	0.810	0.68	1 970.8	1969	1986	TCPL CNG MATERIAL BALANCE CONCURRENT PRODUCTION
11.31	0.148	0.90	14 120	65	0.819	0.68		1971	1989	TCPL CNG DRY GAS BREAKTHROUGH
4.12	0.119	0.70	12 440	51	0.821	0.64	2 108.7	1971	1989	TCPL CNG DRY GAS BREAKTHROUGH
6.35	0.132	0.80	31 960	76	0.942	0.70	1 699.7	1971	1988	PROGAS TCPL MATERIAL BALANCE
8.73	0.101	0.70	19 930	69	0.849	0.65	2 522.2	1987	1989	CDNHUNT TOP/BASE TVD
7.30	0.090	0.75	19 930	74	0.861	0.64	2 434.7	1972	1985	
						0.64	2 334.1	1972	1989	
14.05	0.095	0.70	20 980	86	0.855	0.73	2 805.8	1972	1989	UNIGAS PROGAS PANALTA CNG TCPL PSR
20.80	0.100	0.75	20 500	74	0.865	0.66	2 793.1	1982	1989	CNG TOP/BASE TVD
13.40	0.099	0.75	20 650	76	0.844	0.72	2 858.7	1978	1988	
35.15	0.076	0.90	40 610	108	0.973	0.79	4 200.4	1982	1989	CNG TOP/BASE TVD
62.76	0.033	0.80	39 970	116	0.953	0.81	4 254.1	1968	1984	A&S CNG TCPL PRODUCTION DECLINE
								1972	1989	CNG TOP/BASE TVD
124.66	0.070	0.90	39 910	118	0.949	0.83	4 469.0	1969	1986	A&S CNG TCPL MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
RIVERCOURSE 047-01W4 TOTAL-RIVERCOURSE	544			384	80	304		10 524	
RIVIERE 055-27W4 TOTAL-RIVIERE	412			282	23	259		10 153	
ROBIN (SA) 014-20W4 GLC SS 014-20	522	0.90	0.15	400		400	38	15 208	1 220
OTHER	245			164		164		6 015	
TOTAL-ROBIN	767			564		564		21 223	
ROCHE (SA) 067-07W5 TOTAL-ROCHE	57			36		36		1 392	
ROCHESTER 062-23W4 TOTAL-ROCHESTER	1 307			840	133	707		26 319	
ROCKYFORD 026-23W4 UPPER MANNVILLE A	396	0.85	0.10	303			40		596
LOWER MANNVILLE D	106	0.75	0.10	72			40		150
U MANN A & L MANN D TOTAL	502	0.85	0.10	375	245	130	40	5 157	
OTHER	1 191			750	67	683		26 925	
TOTAL-ROCKYFORD	1 693			1 125	312	813		32 082	
ROLLA 079-06W6 TOTAL-ROLLA	286			200		200		7 595	
RDME0 025-04W4 TOTAL-RDME0	431			291		291		10 976	
RONALANE 013-12W4 TOTAL-RONALANE	77			56		56		2 002	
ROSEBUD 027-21W4 TOTAL-ROSEBUD	110			75		75		2 906	
ROSEVEAR 054-15W5 BEAVERHILL LAKE A	7 095	0.90	0.17	5 300	2 934	2 366	38	90 594	3 201
BEAVERHILL LAKE B	6 095	0.85	0.17	4 300	1 354	2 946	38	112 802	2 145
OTHER	245			156		156		6 174	
TOTAL-ROSEVEAR	13 435			9 756	4 288	5 468		209 570	
ROSSBEAR (SA) 094-14W5 TOTAL-ROSSBEAR	10			6		6		220	
ROUSSEAU (SA) 090-01W6 TOTAL-ROUSSEAU	10			6		6		224	
ROUTE 062-08W6 TOTAL-ROUTE	130			86	10	76		2 963	
ROWLEY 032-20W4 BELLY RIVER A	558	0.65	0.05	345	310	35	37	1 296	1 002
PEKISK0 A ASSOC		0.92	0.05				40		1 503
PEKISK0 A SOLN	613	0.65	0.05	378 ^b			40		
PEKISK0 A ASSOC		0.92	0.05				40		1 120
PEKISK0 A TOTAL	2 021	0.85	0.05	1 608 ^b	1 188 ^b	420			
OTHER	3 080			1 922	558	1 364		52 442	
TOTAL-ROWLEY	5 659			3 875	2 056	1 819		53 738	
ROXANA 078-19W5 BELLOY A	550	0.70	0.10	347	1	346	38	13 141	2 758
OTHER	545			364		364		13 471	
TOTAL-ROXANA	1 095			711	1	710		26 612	
ROYAL 053-16W4 TOTAL-ROYAL	1 407			878	137	741		27 673	
ROYCE 084-07W6 WAB 02-084-07	571	0.75	0.10	385		385	36	13 983	440
OTHER	260			187		187		6 753	
TOTAL-ROYCE	831			572		572		20 736	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.60	0.190	0.65	11 700	38	0.803	0.71	1 216.6	1981	1989	DEVNIC TCPL
3.24 4.00	0.182 0.210	0.85 0.70	11 450 10 670	42 42	0.780 0.801	0.70 0.67	1 482.6 1 492.3	1970 1970 1970	1982 1985 1985	
11.39 17.87	0.089 0.089	0.85 0.85	32 810 32 810	116 116	0.989 0.989	0.71 0.71	3 222.7 3 324.9	1971 1974	1989 1989	TCPL MATERIAL BALANCE TCPL MATERIAL BALANCE
9.20 3.69 2.31	0.310 0.153 0.153	0.60 0.90 0.90	3 160 10 240 10 130	21 50 50	0.940 0.825 0.827	0.56 0.68 0.67	679.6 1 335.8 1 337.0	1964 1960 1960 1960	1985 1988 1988 1988	TCPL MATERIAL BALANCE CONCURRENT PRODUCTION MATERIAL BALANCE CONCURRENT PRODUCTION MATERIAL BALANCE ESSO TCPL CONCURRENT PRODUCTION
1.32	0.270	0.80	6 840	39	0.891	0.60	877.0	1974	1983	PROGAS
15.85	0.060	0.70	22 370	85	0.912	0.65	2 128.4	1974	1983	TCPL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
RUBEN (SA) 083-03W5 TOTAL-RUBEN	5			3		3		116	
RUMSEY 034-21W4 TOTAL-RUMSEY	1 380			866	377	489		18 589	
RUNDLE 065-16W4 TOTAL-RUNDLE	158			96	39	57		2 118	
RUSSET (SA) 120-22W5 TOTAL-RUSSET	52			37		37		1 365	
RYAN (SA) 096-14W5 TOTAL-RYAN	45			26		26		954	
RYCROFT 077-04W6 GETHING D OTHER TOTAL-RYCROFT	551 2 562 3 113	0.80	0.10	397 1 516 1 913	11 235 246	386 1 281 1 667	38	14 498 49 767 64 265	150
SABBATH (SA) 106-12W6 TOTAL-SABBATH	10			7		7		267	
SADDLE HILLS 076-08W6 PADDY B OTHER TOTAL-SADDLE HILLS	1 203 2 177 3 380	0.70	0.05	800 1 338 2 138	470 211 681	330 1 127 1 457	37	12 190 42 982 55 172	1 681
SAKWATAMAU 063-14W5 TOTAL-SAKWATAMAU	839			542	1	541		20 816	
SALESKI 086-18W4 GROSMONT A OTHER TOTAL-SALESKI	1 327 523 1 850	0.50	0.05	631 321 952	619 197 816	12 124 136	36	438 4 537 4 975	32 894
SALTER 027-08W5 RUNDLE A TOTAL-SALTER	3 581 3 581	0.70	0.25	1 880 1 880	3 3	1 877 1 877	37	70 312 70 312	1 780
SAMSON 044-24W4 TOTAL-SAMSON	1 041			752	280	472		18 446	
SAND (SA) 069-08W4 TOTAL-SAND	42			23		23		848	
SANDY 082-20W4 TOTAL-SANDY	2			1	1				
SANGUDO 057-06W5 TOTAL-SANGUDO	355			247	2	245		8 789	
SAPPHIRE (SA) 002-05W4 TOTAL-SAPPHIRE	171			122		122		4 520	
SARAH 066-07W5 TOTAL-SARAH	109			73		73		2 775	
SARCEE 023-04W5 RUNDLE A TOTAL-SARCEE	6 744 6 744	0.85	0.18	4 700 4 700	3 510 3 510	1 190 1 190	39	46 696 46 696	1 304
SAUNDERS 040-13W5 RUNDLE B TV 19-040-13 TOTAL-SAUNDERS	1 598 795 2 393	0.40 0.60	0.10 0.10	575 429 1 004	123 123	452 429 881	38 39	17 384 16 607 33 991	991 200
SAVANNA CREEK 014-04W5 RUNDLE A TOTAL-SAVANNA CREEK	6 860 6 860	0.80	0.20	4 390 4 390	2 924 2 924	1 466 1 466	38	55 078 55 078	4 048
SAWDY 069-22W4 TOTAL-SAWDY	188			123	28	95		3 529	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
21.40	0.190	0.75	11 890	52	0.863	0.63	1 266.9	1983	1989	
6.09	0.150	0.60	7 020	52	0.901	0.62	1 215.9	1972	1988	TCPL A&S MATERIAL BALANCE
13.45	0.125	0.30	780	9	0.983	0.57	243.0	1977	1987	PARAMNT PANALTA A&S
21.20	0.051	0.75	26 900	75	0.886	0.68	2 669.1	1972	1987	PANALTA TCPL TOP/BASE TVD
29.54	0.080	0.80	26 300	81	0.900	0.71	3 042.5	1954	1984	CWNGNUL MATERIAL BALANCE DEEP CUT SL
13.58	0.059	0.80	32 030	93	0.989	0.62	3 569.1	1976	1984	TCPL
31.92	0.062	0.80	35 580	115	1.039	0.62	3 989.8	1977	1984	TCPL
54.40	0.040	0.85	19 210	58	0.818	0.69	2 585.9	1954	1987	CEL MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
SAXON 061-24W5 TOTAL-SAXON	200			133		133		5 104	
SCANDIA 016-16W4 TOTAL-SCANDIA	256			199	152	47		1 767	
SCULLY (SA) 100-20W5 TOTAL-SCULLY	84			60		60		2 131	
SEAL 082-14W5 TOTAL-SEAL	983			629		629		23 254	
SEDALIA 030-05W4 BELLY RIVER A	1 464	0.50	0.05	695	622	73	37	2 686	6 424
BELLY RIVER D	552	0.60	0.05	314	281	33	37	1 213	2 451
VIKING C		0.73	0.08				37		10 633
VIKING E		0.73	0.08				37		4 329
VIKING C & E TOTAL	1 562	0.75	0.10	1 050	758	292	37	10 772	
VIKING A		0.70	0.08				37		7 515
VIKING F		0.70	0.08				37		200
UPPER MANNVILLE D		0.70	0.05				37		256
LOWER MANNVILLE B		0.70	0.05				37		1 294
VIK A&F, UMN D & LMN TOTAL	643	0.70	0.05	419	385	34	37	1 261	
OTHER	1 232			668	350	318		11 626	
TOTAL-SEDALIA	5 453			3 146	2 396	750		27 558	
SEDGEWICK 042-12W4 BASAL MANNVILLE A	529	0.85	0.10	405			37		935
BASAL MANNVILLE B	66	0.70	0.10	41			36		150
BASAL MANNVILLE A & B TOTAL	595	0.85	0.10	446	368	78	37	2 871	
OTHER	370			260	20	240		8 769	
TOTAL-SEDGEWICK	965			706	388	318		11 640	
SEIU LAKE 025-18W4 MEDICINE HAT A	856	0.70	0.03	581			36		12 401
SE ALTA GAS SYS (MU) TOTAL	856	0.70	0.05	581		581	36	21 189	
UPPER MANNVILLE A	1 491	0.85	0.10	1 140	512	628	39	24 762	5 003
OTHER	1 024			662	191	471		18 285	
TOTAL-SEIU LAKE	3 371			2 383	703	1 680		64 236	
SEXSMITH 074-06W6 TOTAL-SEXSMITH	1 043			683	92	591		22 760	
SHADOW 074-17W5 TOTAL-SHADOW	79			59		59		2 205	
SHANE 077-02W6 TOTAL-SHANE	765			555	142	413		16 052	
SHANNON 026-06W4 TOTAL-SHANNON	156			106	4	102		3 755	
SHAUNICY (SA) 007-03W4 TOTAL-SHAUNICY	310			248		248		8 872	
SHAW 049-22W5 SPRAY RIVER A	139	0.75	0.10	94			37		200
RUNDLE A	2 345	0.40	0.10	844			38		2 348
SPRAY RIV A&RUNDLE A TOTAL	2 484	0.40	0.10	938	263	675	38	25 637	
TOTAL-SHAW	2 484			938	263	675		25 637	
SHEKILIE 117-09W6 SL PT 18-118-10	561	0.75	0.15	358		358	37	13 371	400
SUL PT 08-119-07	419	0.85	0.15	303		303	36	10 884	64
KR 11-118-08	944	0.80	0.25	566		566	43	24 202	64
OTHER	4 184			2 241	174	2 067		82 080	
TOTAL-SHEKILIE	6 108			3 468	174	3 294		130 537	
SHETLAND 106-10W6 TOTAL-SHETLAND	50			36		36		1 304	
SHOULDICE 020-23W4 MEDICINE HAT A	943	0.70	0.03	640			36		14 671

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.26 3.75 1.13 0.79	0.342 0.338 0.233 0.195	0.70 0.75 0.55 0.45	1 370 1 370 6 380 6 280	7 10 32 32	0.969 0.970 0.889 0.895	0.56 0.56 0.59 0.58	194.1 202.7 835.5 833.9	1973 1975 1954 1958	1989 1988 1985 1985	ESSO CWNGNUL TCPL PRODUCTION DECLINE CWNGNUL PRODUCTION DECLINE MATERIAL BALANCE MATERIAL BALANCE
1.64 0.75 2.44 2.20	0.226 0.120 0.220 0.280	0.30 0.40 0.50 0.35	6 570 6 380 7 330 7 950	32 32 31 32	0.892 0.889 0.872 0.870	0.57 0.59 0.59 0.58	748.4 791.0 801.6 829.3	1954 1956 1957 1976 1968 1956	1985 1989 1989 1989 1989 1989	TCPL PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE PRODUCTION DECLINE TCPL
3.34 2.10	0.301 0.301	0.80 0.80	6 740 6 740	35 35	0.884 0.883	0.63 0.63	897.3 880.6	1954 1958 1954	1968 1982 1969	MATERIAL BALANCE TCPL
1.60 2.21	0.170 0.190	0.55 0.65	4 310 9 720	17 38	0.916 0.814	0.56 0.65	487.7 1 325.9	1904 1904 1960	1987 1983 1986	PART OF MED HAT POOL NO. 1 TCPL TCPL
2.40 10.58	0.090 0.050	0.90 0.85	32 680 33 270	99 137	1.008 1.039	0.62 0.61	3 920.5 3 973.0	1973 1973 1973	1986 1984 1986	PRODUCTION DECLINE TOP/BASE TVD TOP/BASE TVD TCPL
15.55 60.13 85.00	0.088 0.098 0.100	0.85 0.85 0.80	14 470 13 710 19 860	98 66 71	0.920 0.879 0.757	0.64 0.67 0.84	1 705.3 1 639.5 1 732.5	1985 1969 1983	1989 1969 1984	A&S
1.49	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1988	PART OF MED HAT POOL NO. 1

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
SHOULDICE 020-23W4 (CONTINUED)									
SE ALTA GAS SYS (MU) TOTAL	943	0.70	0.05	640		640	36	23 341	
GLAUCONITIC J SOLN	20	0.65	0.30	9 ^b			40		
GLAUCONITIC J ASSOC	506	0.90	0.10	410 ^b	173 ^b	246	40	9 717	252
OTHER	1 541			976	199	777		30 392	
TOTAL-SHOULDICE	3 010			2 035	372	1 663		63 450	
SIBBALD 027-02W4									
VIKING A	1 039	0.80	0.05	789	684	105	37	3 852	3 985
OTHER	1 513			993	310	683		25 066	
TOTAL-SIBBALD	2 552			1 782	994	788		28 918	
SILER 057-07W4									
TOTAL-SILER	182			117	11	106		3 886	
SILVER 017-28W4									
TOTAL-SILVER	236			161		161		6 218	
SIMONETTE 063-26W5									
DUNVEGAN F ASSOC	2 460	0.70	0.10	1 550	66	1 484	41	61 245	3 349
GETHING A	1 094	0.75	0.10	739	218	521	40	20 887	1 401
WABAMUN A	600	0.85	0.35	332	237	95	39	3 687	128
D-3 SOLN	9 706	0.34	0.50	1 650 ^b			41		
D-3 ASSOC		0.80	0.25		1 551 ^b	99	41	4 075	
OTHER	2 094			1 370	194	1 176		46 957	
TOTAL-SIMONETTE	15 954			5 641	2 266	3 375		136 851	
SIMONETTE NORTH (SA) 064-25W5									
TOTAL-SIMONETTE NORTH	35			23		23		889	
SINCLAIR 074-12W6									
PADDY A	4 170	0.90	0.15	3 190	3 050	140	41	5 685	3 437
PADDY B	1 367	0.80	0.10	985	752	233	41	9 437	2 209
PADDY D	526	0.85	0.10	402	63	339	40	13 702	1 844
FALHER A	2 852	0.85	0.15	2 060	1 201	859	40	34 609	11 200
GETHING D	561	0.90	0.05	480	220	260	40	10 371	150
CADOMIN A	4 621	0.70	0.15	2 750	49	2 701	38	102 233	13 738
DOIG A	14 815	0.75	0.10	10 000	1 960	8 040	38	304 475	7 758
OTHER	6 388			4 311	749	3 562		139 637	
TOTAL-SINCLAIR	35 300			24 178	8 044	16 134		620 149	
SIPHON (SA) 086-10W6									
TOTAL-SIPHON	26			19		19		713	
SKARO 057-19W4									
TOTAL-SKARO	28			19		19		727	
SLAVE 084-14W5									
TOTAL-SLAVE	879			547	19	528		18 454	
SMITH 071-25W4									
TOTAL-SMITH	557			352		352		13 189	
SMITH COULEE 004-11W4									
BOW ISLAND A	941	0.85	0.05	760	696	64	35	2 216	17 862
BOW ISLAND B	409	0.85	0.05	331	324	7	35	246	4 973
OTHER	126			81	16	65		2 190	
TOTAL-SMITH COULEE	1 476			1 172	1 036	136		4 652	
SMOKY (SA) 059-03W6									
TOTAL-SMOKY	156			112		112		4 384	
SMOKY HEIGHTS (SA) 074-02W6									
TOTAL-SMOKY HEIGHTS	404			315		315		11 741	
SNAKE (SA) 017-24W4									
TOTAL-SNAKE	27			20		20		761	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
7.48	0.222	0.80	13 330	45	0.788	0.67 0.67	1 648.2	1904 1981 1981	1988 1989 1989	PROGAS NORCEN CONCURRENT PRODUCTION NORCEN CONCURRENT PRODUCTION
2.38	0.221	0.70	6 880	31	0.886	0.58	763.5	1951	1973	TCPL MATERIAL BALANCE
5.67 4.71 46.94	0.123 0.130 0.080	0.70 0.70 0.85	13 860 19 530 34 160	59 77 104	0.789 0.871 0.903	0.70 0.63 1.13 0.86 0.86	1 829.7 2 525.4 3 364.9	1959 1970 1959 1958 1958	1989 1988 1989 1988 1988	OIL POOL DEPLETED METHON AMOCO A&S PRODUCTION DECLINE SECONDARY GAS CAP BEING PRODUCED SECONDARY GAS CAP BEING PRODUCED
6.59 6.67 3.45 3.14	0.149 0.114 0.120 0.079	0.80 0.70 0.60 0.60	12 700 11 310 10 910 14 150	60 60 55 65	0.816 0.831 0.823 0.827	0.67 0.66 0.67 0.66	1 666.1 1 605.9 1 454.1 1 825.8	1978 1978 1978 1977	1986 1989 1989 1986	TCPL CEL MATERIAL BALANCE DEEP CUT SL POCO TCPL PROGAS PANALTA PROGAS TCPL CEL MATERIAL BALANCE DEEP CUT SL
6.57	0.160	0.75	20 590	71	0.848	0.67	2 109.2	1978	1989	PROGAS PANALTA PRODUCTION DECLINE GAS STORAGE
6.18	0.050	0.60	18 810	88	0.902	0.62	2 313.7	1977	1985	PROGAS PANALTA ESSO TCPL PART OF CDM POOL NO.1 DEEP CUT SL
11.73	0.092	0.85	26 120	101	0.954	0.62	2 509.7	1977	1987	PROGAS POCO PANALTA ESSO TCPL CEL
0.97 0.90	0.207 0.240	0.70 0.60	4 340 4 360	19 24	0.921 0.925	0.59 0.58	625.8 648.6	1947 1947	1984 1985	CMG MATERIAL BALANCE CMG MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
SNEDDON 080-10W6 TOTAL-SNEDDON	228			150		150		5 681	
SNIFE LAKE 071-18W5 TOTAL-SNIFE LAKE	† 835			294	268	26		† 019	
SNOWFALL (SA) 099-08W6 TOTAL-SNOWFALL	324			232		232		9 261	
SORENSEN 032-12W4 OSTRACOD A	419	0.85	0.10	320	65	255	39	9 840	1 516
OTHER	182			125		125		4 763	
TOTAL-SORENSEN	601			445	65	380		14 603	
SOUNDING 030-09W4 TOTAL-SOUNDING	† 104			735	364	371		14 053	
SOUSA 112-05W6 BLUESKY A	† 854	0.50	0.05	881			36		22 387
BLUESKY A	5	0.65	0.05	3			36		200
BLUESKY A	9	0.65	0.05	6			36		200
BLUESKY A	6	0.65	0.05	4			36		200
BLUESKY A	26	0.65	0.05	16			36		200
BLUESKY A	10	0.65	0.05	7			36		200
BLUESKY A	5	0.65	0.05	3			36		200
BLUESKY A	5	0.65	0.05	3			36		200
BLUESKY A	8	0.65	0.05	5			38		200
BLUESKY A TOTAL	† 928	0.50	0.05	928	81	847	36	30 882	
OTHER	297			198		198		7 416	
TOTAL-SOUSA	2 225			† 126	81	† 045		38 298	
SPENCER 066-08W4 TOTAL-SPENCER	45			26		26		953	
SPIERS 034-15W4 TOTAL-SPIERS	773			500	266	234		8 636	
SPIRIT RIVER 078-07W6 TOTAL-SPIRIT RIVER	† 983			† 069	56	† 013		39 178	
SPRUCE GROVE 052-27W4 TOTAL-SPRUCE GROVE	91			64		64		2 444	
SPUR 072-02W5 WABISKAW A	532	0.75	0.05	379	215	164	37	6 070	2 549
OTHER	371			239	10	229		8 516	
TOTAL-SPUR	903			618	225	393		14 586	
SPUTINA (SA) 096-24W4 TOTAL-SPUTINA	† 36			87		87		3 128	
ST ALBERT-BIG LAKE 053-26W4 OSTRACOD A	3 393	0.85	0.05	2 740	2 656	84	39	3 276	3 215
ST ALBERT BSL QTZ B	622	0.85	0.15	450		450	39	17 550	429
OTHER	616			316	21	295		11 460	
TOTAL-ST ALBERT-BIG LAKE	4 631			3 506	2 677	829		32 286	
ST PAUL 058-09W4 UPPER MANNVILLE A	† 104	0.80	0.05	839	295	544	38	20 427	2 156
OTHER	† 152			627	165	462		17 111	
TOTAL-ST PAUL	2 256			† 466	460	† 006		37 538	
ST. ANNE 054-04W5 TOTAL-ST. ANNE	513			328	114	214		8 376	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.30	0.190	0.65	9 090	43	0.840	0.65	1 072.9	1982	1989	NONCOMMERCIAL OIL
3.56	0.210	0.40	2 690	19	0.946	0.59	335.3	1973	1982	PART OF BLSKY POOL NO.1
1.00	0.210	0.40	2 690	19	0.946	0.59	244.5	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
2.00	0.210	0.40	2 690	19	0.946	0.59	232.0	1973	1982	10-06-112-01W6M
1.30	0.210	0.40	2 690	19	0.946	0.59	238.9	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
5.50	0.210	0.40	2 690	19	0.946	0.59	235.3	1973	1983	10-21-112-01W6M
2.10	0.210	0.40	2 690	13	0.941	0.59	222.3	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
0.70	0.293	0.40	2 690	19	0.946	0.59	262.4	1973	1982	10-04-112-02W6M
1.00	0.210	0.40	2 690	19	0.946	0.59	237.5	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
0.93	0.270	0.60	2 690	16	0.939	0.59	229.8	1973	1982	06-03-112-04W6M
								1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
										06-11-112-04W6M
										PART OF BLSKY POOL NO.1 ASSIGNED WELL
										07-01-113-01W6M
										PANALTA PART OF BLSKY POOL NO.1
3.14	0.263	0.75	3 340	27	0.940	0.56	576.0	1979	1989	A&S NORCEN ICG ATCOR
2.77	0.207	0.70	9 380	48	0.805	0.78	1 130.2	1953	1987	PRODUCTION DECLINE
10.06	0.200	0.70	9 410	49	0.807	0.78	1 158.2	1952	1964	
2.36	0.300	0.60	3 280	16	0.931	0.57	477.9	1949	1985	PANALTA TOPL PWGE MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
STANDARD 026-22W4									
VIKING A	761	0.90	0.10	616	98	518	39	20 062	1 703
OTHER	12			8		8		304	
TOTAL-STANDARD	773			624	98	526		20 366	
STANDISH (SA) 068-07W4									
TOTAL-STANDISH	7			4		4		149	
STANMORE 029-11W4									
VIKING A		0.70	0.05				38		7 712
VIKING B		0.70	0.05				38		2 383
VIKING A & B TOTAL	1 654	0.70	0.05	1 100	1 010	90	38	3 382	
UPPER MANNVILLE Z	941	0.85	0.05	760	656	104	39	4 054	2 753
OTHER	4 335			3 058	1 449	1 609		60 651	
TOTAL-STANMORE	6 930			4 918	3 115	1 803		68 087	
STEELE 066-25W4									
TOTAL-STEELE	3 083			2 007	872	1 135		42 593	
STEEN 108-01W6									
BLUESKY A	106	0.50	0.05	50			36		2 603
BLUESKY A	6	0.65	0.05	4			36		200
BLUESKY A	21	0.65	0.05	13			36		200
BLUESKY A	20	0.65	0.05	12			36		200
BLUESKY A	16	0.55	0.05	9			36		200
BLUESKY A	50	0.65	0.05	31			36		200
BLUESKY A	49	0.65	0.05	30			36		200
BLUESKY A	42	0.65	0.05	26			36		200
BLUESKY A	5	0.65	0.05	3			36		200
BLUESKY A	13	0.55	0.05	7			36		200
BLUESKY A	16	0.55	0.05	9			36		200
BLUESKY A	35	0.65	0.05	22			36		200
BLUESKY A	12	0.55	0.05	7			36		200
BLUESKY A	8	0.55	0.05	4			37		200
BLUESKY A	9	0.55	0.05	5			37		200
BLUESKY A	4	0.55	0.05	2			37		200
BLUESKY A	26	0.65	0.05	16			37		200
BLUESKY A	9	0.55	0.05	5			37		200
BLUESKY A	5	0.55	0.05	3			37		200
BLUESKY A	248	0.50	0.05	118			36		5 054
BLUESKY A TOTAL	700	0.55	0.05	376		376	36	13 713	
OTHER	23			15		15		563	
TOTAL-STEEN	723			391		391		14 276	
STEEP BANK (SA) 094-07W4									
TOTAL-STEEP BANK	69			33		33		1 229	
STETTTLER 038-20W4									
TOTAL-STETTTLER	1 276			382	250	132		5 132	
STETTTLER NORTH 039-20W4									
LOWER MANNVILLE B	716	0.75	0.10	483	291	192	39	7 453	502
OTHER	331			172	17	155		5 946	
TOTAL-STETTTLER NORTH	1 047			655	308	347		13 399	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.56	0.200	0.70	8 890	30	0.822	0.63	1 282.0	1956	1973	TCPL
2.97	0.267	0.60	7 310	33	0.872	0.60	874.5	1961	1982	MATERIAL BALANCE
1.49	0.267	0.60	7 310	33	0.872	0.60	881.8	1961	1982	MATERIAL BALANCE
1.76	0.205	0.55	9 450	38	0.826	0.64	1 043.5	1961	1982	PROGAS ESSO TCPL
								1970	1983	TCPL PRODUCTION DECLINE
1.91	0.210	0.40	2 480	19	0.950	0.59	335.3	1973	1982	PART OF BLSKY POOL NO.1
1.50	0.210	0.40	2 480	16	0.948	0.59	232.3	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
6.10	0.170	0.40	2 480	16	0.948	0.59	229.5	1973	1982	06-08-107-21W5M
4.57	0.210	0.40	2 480	16	0.948	0.59	241.1	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
3.81	0.200	0.40	2 480	16	0.948	0.59	255.7	1973	1982	10-20-107-21W5M
11.19	0.217	0.40	2 480	18	0.949	0.59	292.5	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
10.67	0.210	0.40	2 660	19	0.946	0.59	345.7	1973	1982	06-03-107-22W5M
9.75	0.210	0.40	2 480	18	0.949	0.59	308.9	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
1.22	0.210	0.40	2 480	15	0.947	0.59	222.1	1973	1982	10-11-107-23W5M
3.05	0.210	0.40	2 480	18	0.949	0.59	298.5	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
3.66	0.210	0.40	2 480	17	0.948	0.59	285.9	1973	1982	07-21-107-24W5M
8.23	0.210	0.40	2 480	17	0.948	0.59	292.9	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
2.70	0.210	0.40	2 480	16	0.948	0.59	273.7	1973	1982	11-08-107-01W6M
1.80	0.210	0.40	2 480	17	0.948	0.59	282.4	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
2.10	0.210	0.40	2 480	17	0.949	0.58	313.8	1973	1982	07-13-107-01W6M
0.90	0.180	0.50	2 480	17	0.949	0.58	309.7	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
4.30	0.240	0.50	2 480	18	0.950	0.58	316.5	1973	1982	11-08-108-21W5M
1.52	0.240	0.50	2 480	17	0.949	0.58	301.6	1973	1982	PART OF BLSKY POOL NO.1 ASSIGNED WELL
1.20	0.210	0.40	2 480	17	0.949	0.58	297.8	1973	1982	10-32-108-24W5M
1.87	0.200	0.50	2 480	11	0.945	0.59	209.8	1973	1985	PART OF BLSKY POOL NO.1 ASSIGNED WELL
								1973	1982	10-36-108-24W5M
										PART OF BLSKY POOL NO.1 ASSIGNED WELL
										10-12-108-01W6M
										PART OF BLSKY POOL NO.1 ASSIGNED WELL
										10-16-109-23W5M
										PART OF BLSKY POOL NO.1 ASSIGNED WELL
										11-20-109-23W5M
										PART OF BLSKY POOL NO.1 ASSIGNED WELL
										06-32-109-24W5M
										PART OF BLSKY POOL NO.1 ASSIGNED WELL
										10-34-109-24W5M
										PART OF BLSKY POOL NO.1 ASSIGNED WELL
										10-23-109-01W6M
										PART OF BLSKY POOL NO.1 ASSIGNED WELL
										06-30-110-23W5M
										PART OF BLSKY POOL NO.1 ASSIGNED WELL
										07-22-110-24W5M
										PART OF BLSKY POOL NO.1
										A&S TCPL PART OF BLSKY POOL NO.1
4.71	0.213	0.75	9 600	54	0.865	0.65	1 340.0	1975	1985	PWGE TCPL MATERIAL BALANCE NONCOMMERCIAL OIL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
STETTNER SOUTH 037-20W4 TOTAL-STETTNER SOUTH	455			209	93	116		4 377	
STEVE 059-07W4 TOTAL-STEVE	637			414	272	142		5 424	
STEWART 032-28W4 TOTAL-STEWART	308			196		196		8 109	
STIMSON (SA) 015-02W5 TOTAL-STIMSON	59			27		27		1 070	
STIRLING 007-19W4 BOW ISLAND A	536	0.85	0.05	433	385	48	37	1 775	5 584
OTHER	19			10		10		350	
TOTAL-STIRLING	555			443	385	58		2 125	
STOLBERG 042-15W5 RUNDLE A	2 708	0.50	0.10	1 220			39		1 021
RUNDLE B	4 178	0.50	0.10	1 880			39		2 779
RUNDLE C	552	0.50	0.15	235			39		440
RUNDLE D	1 570	0.50	0.15	667			39		1 794
RUNDLE A,B,C & D TOTAL	9 008	0.50	0.10	4 002	1 181	2 821	39	109 624	
RUNDLE E	1 047	0.45	0.10	424			39		440
RUNDLE F	803	0.45	0.10	325			39		335
RUNDLE G	565	0.50	0.15	241			39		440
RUNDLE E, F & G TOTAL	2 415	0.45	0.10	990	472	518	39	20 119	
OTHER	224			151		151		6 152	
TOTAL-STOLBERG	11 647			5 143	1 653	3 490		135 895	
STONY PLAIN (SA) 053-01W5 TOTAL-STONY PLAIN	72			49		49		1 894	
STOWE (SA) 091-01W6 TOTAL-STOWE	10			7		7		259	
STRACHAN 037-09W5 GLAUCONITIC B	1 000	0.80	0.10	720	579	141	40	5 575	2 041
GLAUCONITIC D	738	0.80	0.05	561	143	418	39	16 394	1 275
D-3 A	40 741	0.90	0.25	27 500	23 840	3 660	39	143 399	1 973
D-3 B	540	0.90	0.20	389	335	54	38	2 049	645
D-3 C	2 833	0.60	0.20	1 360	1 179	181	39	7 010	712
OTHER	3 308			2 280	529	1 751		68 810	
TOTAL-STRACHAN	49 160			32 810	26 605	6 205		243 237	
STRATHMORE 024-25W4 BELLY RIVER A	1 163	0.80	0.05	884	564	320	36	11 667	2 211
BELLY RIVER E	865	0.50	0.05	411	245	166	37	6 071	440
BELLY RIVER J	555	0.85	0.05	448	146	302	36	10 787	250
VIKING B	460	0.75	0.05	328	285	43	37	1 573	5 197
OTHER	3 979			2 047	1 013	1 034		38 550	
TOTAL-STRATHMORE	7 022			4 118	2 253	1 865		68 648	
STROME 044-16W4 MANNVILLE G	844	0.75	0.05	601	118	483	37	17 779	1 173
OTHER	2 483			1 592	490	1 102		40 843	
TOTAL-STROME	3 327			2 193	608	1 585		58 622	
STRY 058-13W4 UPPER MANNVILLE A	1 000	0.70	0.05	665	231	434	37	16 232	4 115
OTHER	1 880			1 176	355	821		30 616	
TOTAL-STRY	2 880			1 841	586	1 255		46 848	
STURGEON LAKE 071-23W5 TOTAL-STURGEON LAKE	2 035			588	89	499		18 796	
STURGEON LAKE SOUTH 069-22W5 D-3 SOLN	8 967	0.55	0.45	2 713	2 301	412	37	15 318	
OTHER	3 278			1 819		1 632		62 727	
TOTAL-STURGEON LAKE SOUTH	12 245			4 532	2 488	2 044		78 045	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.62	0.204	0.65	3 360	27	0.940	0.56	781.5	1957	1986	CWNGNUL PRODUCTION DECLINE
24.06	0.050	0.85	31 830	107	0.995	0.63	3 252.0	1957	1984	
15.80	0.047	0.85	32 470	112	1.007	0.64	3 802.0	1957	1984	
13.10	0.047	0.85	33 290	117	1.013	0.65	4 115.6	1957	1984	TOP/BASE TVD
8.94	0.048	0.85	33 400	117	1.015	0.64	3 961.5	1974	1984	TOP/BASE TVD
								1957	1984	PANALTA TCPL
21.30	0.052	0.85	31 770	91	0.982	0.63	3 386.0	1976	1984	
19.27	0.058	0.85	32 310	94	0.992	0.62	3 769.0	1976	1984	
12.60	0.050	0.85	33 400	117	1.015	0.64	3 982.5	1974	1984	PANALTA TCPL
								1976	1984	
4.18	0.071	0.70	32 110	99	0.983	0.65	3 000.2	1981	1989	PROGAS A&S ESSO CNG TCPL PRODUCTION DECLINE
3.33	0.101	0.70	31 460	98	0.981	0.64	2 977.1	1972	1989	A&S ESSO CNG TCPL
115.81	0.077	0.90	49 300	124	1.151	0.76	4 110.2	1967	1986	CNG TCPL MATERIAL BALANCE TOP/BASE TVD
51.51	0.031	0.80	49 190	124	1.162	0.63	4 098.0	1970	1987	CNG MATERIAL BALANCE TOP/BASE TVD
25.01	0.073	0.80	31 410	116	0.964	0.75	3 712.5	1972	1987	TCPL
3.53	0.280	0.60	3 210	29	0.944	0.57	895.7	1962	1987	CWNGNUL PRODUCTION DECLINE
8.63	0.230	0.70	3 150	30	0.946	0.57	894.6	1976	1985	CWNGNUL MATERIAL BALANCE
16.00	0.210	0.70	3 070	25	0.945	0.58	829.1	1975	1989	CWNGNUL MATERIAL BALANCE
1.07	0.130	0.70	7 700	44	0.884	0.62	1 464.0	1963	1989	CWNGNUL TCPL PRODUCTION DECLINE
5.95	0.239	0.70	7 170	44	0.890	0.63	1 042.5	1980	1989	A&S TCPL
2.95	0.327	0.60	4 050	24	0.924	0.56	615.9	1970	1987	MIP TCPL
						0.77		1953	1987	A&S

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
SUFFIELD 018-06W4									
MILK RIVER A	31 127	0.70	0.05	20 700			36		246 312
MEDICINE HAT A	16 494	0.70	0.03	11 200			36		224 904
MEDICINE HAT C	1 740	0.50	0.03	844			36		57 266
MEDICINE HAT D	2 062	0.50	0.03	1 000			36		46 656
SECOND WHITE SPECKS A	15 860	0.75	0.05	11 300			36		153 056
SE ALTA GAS SYS(MU) TOTAL	67 283	0.70	0.05	45 044	20 663	24 381	36	889 175	
BOW ISLAND N	669	0.80	0.05	508	283	225	36	8 091	2 221
BOW ISLAND C	409	0.80	0.05	311	7	304	36	10 953	1 838
UPPER MANNVILLE A ASSOC	491	0.85	0.05	396			36		711
UPPER MANNVILLE A ASSOC	402	0.85	0.05	325			36		525
UPPER MANNVILLE A ASSOC	30	0.75	0.05	22			36		150
UPPER MANNVILLE A TOTAL	923	0.85	0.05	743	171	572	36	20 552	
UPPER MANNVILLE I	1 609	0.85	0.05	1 300	1 216	84	36	3 000	1 495
OTHER	3 302			2 298	633	1 665		59 847	
TOTAL-SUFFIELD	74 195			50 204	22 973	27 231		991 618	
SUGDEN 062-10W4									
VIKING A	6 737	0.40	0.05	2 560	14	2 546	37	95 348	96 893
COLONY D	679	0.75	0.05	484	343	141	37	5 266	3 014
COLONY S	618	0.60	0.05	352	203	149	37	5 465	1 813
GRAND RAPIDS A	484	0.80	0.05	368			37		4 880
GRAND RAPIDS D	48	0.65	0.05	29			37		200
GRAND RAPIDS A & D TOTAL	532	0.80	0.05	397	97	300	37	10 986	
MCMURRAY C	640	0.65	0.05	395	259	136	37	5 046	800
OTHER	5 350			3 387	1 279	2 108		78 662	
TOTAL-SUGDEN	14 556			7 575	2 195	5 380		200 773	
SULLIVAN LAKE 035-13W4									
BELLY RIVER A	627	0.75	0.05	447			37		2 085
BELLY RIVER B	52	0.70	0.05	34			37		487
BELLY RIVER A & B TOTAL	679	0.75	0.05	481	353	128	37	4 733	
OTHER	1 779			1 031	459	572		21 750	
TOTAL-SULLIVAN LAKE	2 458			1 512	812	700		26 483	
SUNBURST (SA) 001-18W4									
TOTAL-SUNBURST	8			4		4		146	
SUNCHILD 043-11W5									
ELKTON-SHUNDA A	45	0.75	0.10	31			38		128
ELKTON-SHUNDA A	833	0.85	0.15	602			39		2 157
ELKTON-SHUNDA A	586	0.85	0.15	423			39		1 468
ELKTON-SHUNDA A TOTAL	1 464	0.85	0.15	1 056	233	823	39	32 015	
OTHER	182			123	38	85		3 311	
TOTAL-SUNCHILD	1 646			1 179	271	908		35 326	
SUNDANCE 054-21W5									
VIKING A	2 760	0.90	0.05	2 360	1 758	602	40	23 911	2 554
OTHER	720			481	93	388		15 661	
TOTAL-SUNDANCE	3 480			2 841	1 851	990		39 572	
SUNNYNOOK 026-11W4									
BASAL MANNVILLE I	558	0.85	0.05	450	74	376	38	14 119	300
BASAL MANNVILLE J	560	0.90	0.05	479	147	332	38	12 500	892
OTHER	2 695			1 916	431	1 485		55 233	
TOTAL-SUNNYNOOK	3 813			2 845	652	2 193		81 852	
SUNSET 069-19W5									
TOTAL-SUNSET	174			121	11	110		4 240	
SUPERBA 026-03W4									
TOTAL-SUPERBA	484			326	64	262		9 671	
SURRETTE (SA) 097-15W5									
TOTAL-SURRETTE	523			312		312		11 063	
SUTTON 091-03W6									
GETH 092-03	679	0.80	0.05	516		516	37	19 340	2 162
OTHER	327			205		205		7 414	
TOTAL-SUTTON	1 006			721		721		26 754	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
4.99	0.154	0.55	3 140	16	0.937	0.56	355.7	1910	1983	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
1.70	0.170	0.55	4 310	17	0.916	0.56	487.7	1904	1982	PART OF MED HAT POOL NO.1
0.77	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.3
1.12	0.139	0.60	4 450	19	0.916	0.56	487.7	1973	1987	PART OF MED HAT POOL NO.4
1.34	0.216	0.60	5 690	27	0.904	0.56	630.0	1944	1987	PART OF 2WS POOL NO.1
2.33	0.263	0.60	7 550	27	0.873	0.59	817.6	1904	1986	PANALTA CWNGNUL A&S TCPL
1.84	0.234	0.70	6 890	27	0.884	0.58	718.1	1970	1983	PANALTA TCPL
3.51	0.217	0.80	10 240	30	0.849	0.59	940.2	1955	1978	TCPL PART OF BOW ISL POOL NO.1
3.46	0.244	0.80	10 240	30	0.849	0.59	940.2	1976	1984	
1.22	0.240	0.60	10 180	31	0.841	0.62	927.8	1976	1988	
3.70	0.226	0.75	10 520	33	0.850	0.60	981.7	1976	1984	ASSIGNED WELL 04-02-020-07W4M
								1974	1988	PANALTA CONCURRENT PRODUCTION
										PANALTA MATERIAL BALANCE
1.48	0.270	0.55	3 040	18	0.939	0.56	319.0	1949	1988	PANALTA CWNGNUL POCO CNWE KANNGAZ MIP PWGE
3.44	0.300	0.75	2 550	13	0.945	0.57	315.7	1973	1987	PART OF VIK POOL NO.6
5.07	0.296	0.75	2 930	19	0.943	0.56	378.3	1978	1985	MIP MATERIAL BALANCE
2.12	0.300	0.60	2 540	19	0.951	0.57	339.5	1971	1985	PANALTA
3.96	0.300	0.75	2 590	18	0.948	0.56	320.5	1977	1983	
2.09	0.300	0.70	3 340	23	0.938	0.56	450.1	1971	1983	PROGAS PANALTA MIP KANNGAZ
								1974	1986	PANALTA MIP KANNGAZ PRODUCTION DECLINE
4.96	0.339	0.55	3 100	16	0.938	0.56	437.5	1967	1987	
2.49	0.270	0.50	3 050	16	0.939	0.56	420.9	1976	1987	
								1967	1987	TCPL
2.44	0.080	0.85	26 100	104	0.926	0.73	2 899.0	1969	1987	
2.92	0.086	0.80	24 210	108	0.940	0.65	2 931.1	1969	1987	
1.95	0.120	0.85	26 100	113	0.958	0.65	2 922.4	1969	1977	
								1969	1987	TCPL
4.52	0.145	0.80	30 430	96	0.961	0.66	2 732.4	1971	1986	UNIGAS PANALTA UNOCAL ESSO MATERIAL BALANCE
8.40	0.283	0.80	9 650	48	0.874	0.58	1 040.9	1985	1987	NONCOMMERCIAL OIL
3.37	0.266	0.65	9 960	35	0.853	0.57	1 042.4	1985	1989	
5.73	0.213	0.45	5 640	35	0.910	0.56	772.6	1972	1982	PANALTA

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
SWALWELL 029-24W4									
VIKING A	913	0.80	0.10	657	656	1	39	39	4 644
PEKISKO A SOLN	120	0.60	0.10	65 ^b			40		
PEKISKO A ASSOC	457	0.70	0.10	288 ^b	292 ^b	61	40	2 439	1 680
OTHER	1 947			1 073	272	801		30 373	
TOTAL-SWALWELL	3 437			2 083	1 220	863		32 851	
SWAN HILLS 068-10W5									
BEAVERHILL LAKE C SOLN	7 601	0.36	0.60	1 094	415	679	41	27 758	
BEAVERHILL LAKE A ASSOC		0.70	0.35				42		
BEAVERHILL LAKE A SOLN	29 000	0.42	0.35	7 917			42		
BEAVERHILL LAKE A&B TOTAL	29 000	0.40	0.35	7 917	6 393	1 524	42	64 389	
OTHER	210			125		125		4 803	
TOTAL-SWAN HILLS	36 811			9 136	6 808	2 328		96 950	
SWAN HILLS SOUTH 065-10W5									
BEAVERHILL LAKE A ASSOC		0.65	0.25				44		
BEAVERHILL LAKE A SOLN	15 232	0.64	0.35	6 336 ^b			44		
BEAVERHILL LAKE A&B TOTAL	15 232	0.65	0.35	6 336 ^b	5 424 ^b	912	44	39 809	
OTHER	38			24		24		932	
TOTAL-SWAN HILLS SOUTH	15 270			6 360	5 424	936		40 741	
SWEETGRASS 001-15W4									
TOTAL-SWEETGRASS	62			44	16	28		1 034	
SWIMMING 052-06W4									
TOTAL-SWIMMING	618			425	44	381		13 780	
SYLVAN LAKE 037-03W5									
GLAUCONITIC A		0.85	0.10				40		5 287
LOWER MANNVILLE O		0.85	0.10				40		200
SHUNDA A		0.85	0.10				40		242
GLAUC A, SHUN A&L MN O TOTAL	8 000	0.85	0.10	6 120	5 344	776	40	30 823	
GLAUCONITIC I	8	0.75	0.10	5			41		150
LOWER MANNVILLE X	67	0.75	0.10	45			39		300
LOWER MANNVILLE DD	2 131	0.80	0.12	1 500			40		3 172
BASAL QUARTZ A SOLN	577	0.75	0.40	260			40		
GLC I, L MN X, DD&BQ A TOTAL	2 783	0.80	0.20	1 810	439	1 371	40	54 443	
LOWER MANNVILLE A	1 474	0.85	0.09	1 140	856	284	39	11 167	1 002
LOWER MANNVILLE C	1 333	0.90	0.15	1 020	356	664	40	26 301	810
LOWER MANNVILLE D	367	0.90	0.06	310	145	165	40	6 560	354
LOWER MANNVILLE H	834	0.85	0.10	638	261	377	39	14 876	581
LOWER MANNVILLE M	462	0.75	0.10	312	20	292	39	11 516	393
OSTRACOD J	47	0.75	0.10	32			40		602
OSTRACOD K	1 459	0.80	0.10	1 050			40		5 113
OSTRACOD N	380	0.85	0.10	291			40		400
OSTRACOD O	15	0.75	0.10	10			40		128
LOWER MANNVILLE BB	317	0.85	0.10	242			40		612
OST JKNO & LMANN BB TOTAL	2 218	0.80	0.10	1 625	264	1 361	40	54 318	
JURASSIC A SOLN	455	0.65	0.20	237 ^b			39		
JURASSIC A ASSOC	753	0.90	0.10	610 ^b	145 ^b	702	39	27 322	838
ELKTON-SHUNDA A	1 469	0.90	0.10	1 190	1 190	< 1	40	-	1 416
ELKTON-SHUNDA B	1 150	0.85	0.10	880	869	11	40	438	823
SHUNDA B	682	0.90	0.10	553		553	39	21 783	852
PEKISKO B SOLN	917	0.60	0.20	440	352	88	38	3 380	
PEKISKO B ASSOC	602	0.90	0.10	488		488	38	18 744	622
PEKISKO I	460	0.80	0.15	313	69	244	39	9 557	416
PEKISKO N	1 349	0.85	0.05	1 090	959	131	40	5 243	826
D-3 A SOLN	424	0.65	0.45	152 ^b			39		
D-3 A ASSOC	1 134	0.90	0.11	909 ^b	296 ^b	765	39	29 850	765
OTHER	10 849			6 653	1 729	4 924		196 707	
TOTAL-SYLVAN LAKE	37 715			26 490	13 294	13 196		523 028	
TABER 009-17W4									
TOTAL-TABER	548			372	48	324		11 690	
TABER NORTH 011-16W4									
TOTAL-TABER NORTH	417			96	24	72		2 665	
TABER SOUTH 007-16W4									
BOW ISLAND A	757	0.90	0.05	647	226	421	35	14 739	7 720

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
1.94	0.150	0.60	8 070	52	0.868	0.65 0.66	1 397.5	1963 1963	1989 1989	A&S TCPL PRODUCTION DECLINE A&S TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
6.02	0.068	0.70	10 940	59	0.836	0.66	1 632.4	1963	1989	A&S TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION
						0.82 0.94 0.94		1958 1957 1957	1988 1988 1988	PANALTA CWNGNUL MU - BEAVERHILL LAKE A&B MU - BEAVERHILL LAKE A&B PANALTA CWNGNUL
						0.87 0.87		1959 1959 1959	1988 1988 1988	MU-BEAVERHILL LK A&B, DRY GAS BKTHROU MU-BEAVERHILL LK A&B, DRY GAS BKTHROU CWNGNUL DRY GAS BREAKTHROUGH
8.02	0.132	0.70	16 780	70	0.818	0.71	2 108.3	1953	1985	MATERIAL BALANCE
3.66	0.120	0.75	8 550	64	0.858	0.71	2 119.3	1976	1985	MATERIAL BALANCE
3.19	0.132	0.70	16 780	70	0.818	0.71	2 091.7	1953	1985	MATERIAL BALANCE
0.50	0.095	0.65	17 130	75	0.828	0.68	2 369.8	1988	1988	PROGAS DIRECT A&S TCPL
1.65	0.105	0.75	17 150	73	0.826	0.72	2 419.4	1987	1988	
3.25	0.130	0.80	20 340	71	0.846	0.68	2 409.5	1963	1988	
						0.73		1964	1986	
5.65	0.129	0.70	16 900	66	0.818	0.70	2 177.3	1962	1989	PROGAS PANALTA TCPL
4.41	0.119	0.75	16 920	66	0.801	0.73	2 203.2	1953	1987	A&S TCPL PRODUCTION DECLINE
4.24	0.129	0.70	16 620	63	0.791	0.74	2 119.2	1960	1981	A&S TCPL PRODUCTION DECLINE
7.08	0.130	0.90	16 830	64	0.819	0.69	2 113.0	1973	1979	A&S TCPL MATERIAL BALANCE
5.86	0.152	0.75	16 690	63	0.803	0.72	2 130.8	1970	1989	TCPL
0.53	0.107	0.65	21 980	74	0.846	0.71	2 346.5	1969	1989	NONCOMMERCIAL OIL
1.78	0.120	0.70	18 600	70	0.808	0.74	2 345.2	1969	1989	
4.40	0.143	0.80	18 680	65	0.832	0.67	2 386.4	1980	1988	
0.60	0.150	0.70	19 040	72	0.827	0.71	2 332.3	1972	1988	
3.53	0.104	0.70	19 420	66	0.809	0.73	2 420.6	1980	1988	
						0.68		1969	1988	UNIGAS PROGAS ESSO TCPL NORCEN DEKALB A&S
5.39	0.140	0.70	17 230	71	0.837	0.68	2 259.5	1962	1987	GULF A&S TCPL CONCURRENT PRODUCTION
5.97	0.071	0.75	16 720	66	0.800	0.73	2 167.7	1955	1982	GULF A&S TCPL CONCURRENT PRODUCTION
12.58	0.134	0.75	17 030	71	0.817	0.72	2 146.1	1973	1982	A&S TCPL MATERIAL BALANCE
6.43	0.095	0.75	16 890	66	0.811	0.72	2 189.7	1953	1975	GULF A&S MATERIAL BALANCE
						0.71		1953	1989	A&S TCPL
5.58	0.118	0.85	16 960	66	0.823	0.71	2 214.3	1953	1989	A&S TCPL
8.73	0.097	0.75	17 790	69	0.849	0.69	2 290.1	1963	1986	A&S TCPL
10.59	0.080	0.75	17 070	71	0.807	0.74	2 191.5	1972	1989	GULF A&S TCPL
						0.79		1961	1989	GULF A&S MATERIAL BALANCE
11.54	0.073	0.85	23 920	99	0.883	0.79	2 863.3	1961	1989	TCPL CONCURRENT PRODUCTION TCPL CONCURRENT PRODUCTION
1.95	0.210	0.65	3 610	24	0.938	0.58	699.4	1958	1989	CWNGNUL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
TABER SOUTH 007-16W4 (CONTINUED)									
OTHER	232			170	95	75		2 566	
TOTAL-TABER SOUTH	989			817	321	496		17 305	
TANGENT 080-24W5									
TOTAL-TANGENT	3 591			2 302	479	1 823		68 719	
TAR (SA) 099-13W4									
TOTAL-TAR	52			32		32		1 206	
TARA (SA) 076-19W4									
TOTAL-TARA	10			6		6		223	
TATE (SA) 120-03W6									
TOTAL-TATE	76			49		49		1 865	
TAWATINAW 062-22W4									
TOTAL-TAWATINAW	103			42	24	18		675	
TEEPEE 073-03W6									
DOIG A	891	0.70	0.10	562	65	497	39	19 552	1 568
KISK 02-074-04	415	0.85	0.10	318		318	38	12 141	440
WABAMUN C	2 465	0.17	0.15	356	316	40	37	1 472	1 276
OTHER	273			196	130	66		2 551	
TOTAL-TEEPEE	4 044			1 432	511	921		35 716	
TELFORDVILLE (SA) 050-02W5									
TOTAL-TELFORDVILLE	407			281		281		11 018	
TEMPLETON 001-12W4									
TOTAL-TEMPLETON	275			191		191		7 013	
THERIEN 060-09W4									
UPPER MANNVILLE F	656	0.75	0.05	468	80	388	37	14 387	2 101
OTHER	2 116			1 211	322	889		32 786	
TOTAL-THERIEN	2 772			1 679	402	1 277		47 173	
THORHILD 059-21W4									
SECOND WHITE SPECKS A	441	0.85	0.05	356	226	130	36	4 703	10 331
OTHER	1 589			1 013	309	704		26 067	
TOTAL-THORHILD	2 030			1 369	535	834		30 770	
THORNBURY 078-13W4									
MCMURRAY G	646	0.70	0.05	429	306	123	37	4 588	1 104
MCMURRAY I	1 053	0.80	0.05	800	326	474	37	17 443	1 224
MCMURRAY M	468	0.75	0.05	333	212	121	37	4 498	613
OTHER	2 952			1 704	617	1 087		40 233	
TOTAL-THORNBURY	5 119			3 266	1 461	1 805		66 762	
THORSBY 049-01W5									
GLAUCONITIC E	1 110	0.80	0.10	799	87	712	41	28 971	951
OTHER	2 939			1 776	304	1 472		58 350	
TOTAL-THORSBY	4 049			2 575	391	2 184		87 321	
THREE HILLS CREEK 035-25W4									
PEKISKD ASSOC	5 434	0.70	0.08	3 500	2 077	1 423	40	56 607	13 344
OTHER	1 518			886	119	767		27 936	
TOTAL-THREE HILLS CREEK	6 952			4 386	2 196	2 190		84 543	
THUNDER 060-06W5									
TOTAL-THUNDER	147			96		96		3 686	
TIELAND 067-04W5									
TOTAL-TIELAND	47			30		30		1 160	
TIMEU 063-03W5									
TOTAL-TIMEU	174			119		119		4 523	
TINDASTOLL 036-01W5									
PEK 22-036-01	448	0.75	0.10	302		302	39	11 823	440
OTHER	343			186	13	173		6 851	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.23 2.78 16.50	0.129 0.250 0.060	0.80 0.70 0.80	14 920 18 320 29 300	44 50 85	0.785 0.832 0.953	0.66 0.63 0.66	1 564.7 1 926.0 2 762.8	1972 1973 1972	1982 1973 1988	TCPL TCPL TCPL PRODUCTION DECLINE
5.23	0.306	0.65	2 690	21	0.949	0.56	363.2	1976	1983	PROGAS PANALTA VECTOR MIP
1.08	0.197	0.50	3 820	19	0.927	0.57	481.5	1963	1989	PANALTA ESSO TCPL
8.08 9.02 6.17	0.310 0.334 0.321	0.55 0.70 0.70	1 910 1 800 1 750	25 20 25	0.965 0.965 0.968	0.55 0.56 0.56	471.4 473.5 460.9	1983 1984 1985	1988 1989 1988	TRITON PRODUCTION DECLINE TRITON MATERIAL BALANCE TRITON PRODUCTION DECLINE
11.45	0.131	0.60	12 560	64	0.817	0.69	1 458.1	1981	1989	TCPL
9.75	0.054	0.65	11 840	70	0.828	0.72	1 757.5	1953	1984	EMI PANALTA EMI 1 TCPL MATERIAL BALANCE CONCURRENT PRODUCTION, OIL DEPLETED
8.02	0.097	0.75	16 550	63	0.803	0.72	2 070.8	1970	1983	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
TINDASTOLL 036-01W5 (CONTINUED)									
TOTAL-TINDASTOLL	791			488	13	475		18 674	
TODD (SA) 009-02W5									
TOTAL-TODD	79			49		49		1 878	
TOFIELD 050-19W4									
TOTAL-TOFIELD	348			226	30	196		7 213	
TOLSTAD (SA) 069-04W6									
TOTAL-TOLSTAD	318			227		227		8 992	
TOMAHAWK 052-05W5									
TOTAL-TOMAHAWK	149			97	4	93		3 565	
TOMATO 072-23W4									
TOTAL-TOMATO	481			280	130	150		5 660	
TONY CREEK NORTH 064-21W5									
TOTAL-TONY CREEK NORTH	812			544	63	481		18 932	
TOOGA (SA) 116-10W6									
TOTAL-TOOGA	30			13		13		490	
TORRINGTON 032-27W4									
TOTAL-TORRINGTON	18			10		10		373	
TOUCHWOOD (SA) 068-09W4									
TOTAL-TOUCHWOOD	12			8		8		297	
TRACY (SA) 095-12W5									
TOTAL-TRACY	20			10		10		368	
TROCHU 033-22W4									
TOTAL-TROCHU	1 998			1 245	542	703		27 247	
TUCKER LAKE (SA) 064-05W4									
TOTAL-TUCKER LAKE	2			1		1		37	
TURIN 010-18W4									
TOTAL-TURIN	4 131			2 599	712	1 887		69 219	
TURNER VALLEY 020-03W5									
RUNDLE SOLN	38 429	0.55	0.56	9 300	9 031	269	40	10 876	
RUNDLE ASSOC	42 063	0.90	0.72	10 600	10 469	131	40	5 296	9
RUNDLE C	990	0.80	0.20	634	178	456	39	18 007	200
RUND 32-021-03	438	0.85	0.10	335		335	40	13 460	400
OTHER	1 457			886	329	557		22 194	
TOTAL-TURNER VALLEY	83 377			21 755	20 007	1 748		69 833	
TWEEDIE 069-13W4									
VIKING B	711	0.65	0.05	439	350	89	37	3 275	7 201
GRAND RAPIDS D	1 184	0.70	0.05	788	741	47	37	1 742	7 054
GLAUCONITIC A		0.85	0.05				37		6 579
GLAUCONITIC D		0.65	0.05				37		2 450
MCMURRAY A		0.85	0.05				37		4 590
GLAUC A, D & MCMURRAY A TOTAL	1 250	0.80	0.05	950	782	168	37	6 219	
GLAUCONITIC B		0.75	0.05				37		8 601
MCMURRAY H		0.70	0.05				37		3 649
GLAUC B & MCMURRAY H TOTAL	1 423	0.75	0.05	1 000	679	321	37	11 877	
MCMURRAY B	453	0.75	0.05	323	246	77	37	2 848	1 525
MCMURRAY L	582	0.70	0.05	387	193	194	37	7 157	8 846
GROSMONT A	1 294	0.70	0.05	861	809	52	37	1 919	11 154
OTHER	3 060			1 882	888	994		36 841	
TOTAL-TWEEDIE	9 957			6 630	4 688	1 942		71 878	
TWINING 031-24W4									
VIKING A	643	0.80	0.10	463	213	250	39	9 793	4 404
LOWER MANNVILLE A ASSOC	425	0.75	0.10	287b			40		1 714
RUNDLE A ASSOC	8 000	0.75	0.10	5 400b			40		26 342
RUNDLE A SOLN	7 227	0.70	0.15	4 300b			40		
L MANN A & RUNDLE A TOTAL	15 652	0.75	0.10	9 987b	1 290b	5 697	40	227 082	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
9.99	0.090	0.90	9 999	74	6.514	0.80	9 999.9	1928	1988	PANALTA MATERIAL BALANCE DEEP CUT SL
28.90	0.080	0.85	29 270	84	0.926	0.70	3 350.2	1928	1988	PANALTA MATERIAL BALANCE DEEP CUT SL
9.10	0.070	0.75	26 140	84	0.908	0.67	2 996.9	1983	1989	A&S TOP/BASE TVD
								1972	1989	PANALTA TCPL
1.10	0.240	0.65	2 360	18	0.954	0.56	234.0	1949	1985	TCPL MATERIAL BALANCE
2.28	0.350	0.60	2 220	19	0.955	0.57	281.8	1961	1986	ESSO TCPL PRODUCTION DECLINE
2.55	0.255	0.50	2 480	21	0.952	0.56	446.5	1963	1988	PRODUCTION DECLINE
1.37	0.250	0.50	2 480	19	0.951	0.56	458.4	1976	1988	PRODUCTION DECLINE
2.11	0.268	0.40	2 480	19	0.951	0.57	457.2	1961	1988	PRODUCTION DECLINE
								1961	1988	ESSO TCPL
2.10	0.255	0.50	2 480	21	0.952	0.56	429.8	1961	1985	PRODUCTION DECLINE
2.09	0.268	0.40	2 480	19	0.951	0.56	430.4	1961	1985	PRODUCTION DECLINE
								1961	1985	TCPL
1.78	0.260	0.45	2 500	24	0.954	0.56	461.4	1952	1985	ESSO TCPL PRODUCTION DECLINE
1.35	0.260	0.25	2 500	25	0.954	0.56	445.6	1952	1986	PROGAS TCPL MATERIAL BALANCE
7.85	0.110	0.40	2 480	19	0.951	0.57	470.2	1961	1989	ESSO TCPL PRODUCTION DECLINE
1.53	0.170	0.65	8 230	45	0.852	0.65	1 423.1	1965	1984	A&S TCPL
1.65	0.200	0.65	11 260	60	0.832	0.67	1 626.1	1962	1987	CONCURRENT PRODUCTION
7.60	0.058	0.60	11 410	63	0.841	0.66	1 622.8	1952	1988	CONCURRENT PRODUCTION
								1952	1988	CONCURRENT PRODUCTION
								1952	1988	A&S TCPL CONCURRENT PRODUCTION

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
TWING 031-24W4 (CONTINUED)									
OTHER	6 099			3 429	1 117	2 312		90 215	
TOTAL-TWING	22 394			13 879	5 620	8 259		327 090	
TWO CREEK (SA) 063-16W5									
TOTAL-TWO CREEK	202			124		124		4 959	
UKALTA 057-17W4									
COLONY F	552	0.80	0.05	420	137	283	38	10 672	2 514
WABAMUN-GRAMINIA A	880	0.75	0.05	627	585	42	37	1 561	2 833
OTHER	3 707			2 285	451	1 834		68 558	
TOTAL-UKALTA	5 139			3 332	1 173	2 159		80 791	
UNWIN 045-02W4									
TOTAL-UNWIN	257			172		172		6 325	
UTIKUMA LAKE 081-09W5									
KEG RIVER SAND A SOLN	1 105	0.70	0.55	348	289	59	36	2 151	
OTHER	975			490	109	381		14 211	
TOTAL-UTIKUMA LAKE	2 080			838	398	440		16 362	
VALHALLA 075-10W6									
DOE CREEK A	3 948	0.80	0.05	3 000			40		24 116
DOE CREEK P	17	0.65	0.05	10			35		200
DOE CREEK A & P TOTAL	3 965	0.80	0.05	3 010	1 134	1 876	40	74 121	
GETHING F	619	0.85	0.05	500	377	123	39	4 824	2 036
HALFWAY A	1 028	0.75	0.10	694		694	38	26 670	1 934
HALFWAY B ASSOC	5 885	c	c	4 250	120	4 130	42	172 221	5 983
DOIG 07-074 ASSOC	455	0.85	0.10	348		348	41	14 223	200
OTHER	8 296			5 174	749	4 425		173 371	
TOTAL-VALHALLA	20 248			13 976	2 380	11 596		465 430	
VALLEYVIEW 070-21W5									
TOTAL-VALLEYVIEW	97			64		64		2 470	
VARDIE (SA) 115-09W6									
TOTAL-VARDIE	19			13		13		490	
VAUXHALL 012-17W4									
UPPER MANNVILLE B	487	0.90	0.15	372	120	252	38	9 500	150
UPPER MANNVILLE E	565	0.85	0.10	432		432	36	15 725	150
OTHER	844			574	84	490		18 388	
TOTAL-VAUXHALL	1 896			1 378	204	1 174		43 613	
VEGA 061-03W5									
TOTAL-VEGA	260			170	6	164		6 291	
VENTRE (SA) 009-04W4									
TOTAL-VENTRE	43			29		29		1 034	
VENUS 101-09W6									
TOTAL-VENUS	345			230	70	160		5 843	
VERGER 022-15W4									
MILK RIVER A	7 864	0.70	0.05	5 230			36		79 068
MEDICINE HAT A	8 837	0.70	0.03	6 000			36		73 685
MEDICINE HAT C	276	0.50	0.03	134			36		9 851
MEDICINE HAT D	494	0.50	0.03	240			36		15 083
SECOND WHITE SPECKS A	3 635	0.75	0.05	2 590			36		36 159
SE ALTA GAS SYS(MU) TOTAL	21 106	0.70	0.05	14 194	3 715	10 479	36	382 169	
BASAL COLORADO A	576	0.85	0.05	466	408	58	37	2 154	3 081
MANNVILLE D ASSOC	469	0.75	0.05	334	27	307	38	11 589	1 523
OTHER	2 258			1 528	508	920		34 358	
TOTAL-VERGER	24 409			16 522	4 758	11 764		430 270	
VERMILION 050-05W4									
TOTAL-VERMILION	375			273		273		9 878	
VIKING-KINSELLA 047-10W4									
UPPER & MID VIKING A		0.85	0.03				36		194 196
UPPER MANNVILLE YY		0.85	0.03				37		1 667

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.91 10.00	0.281 0.246	0.55 0.40	4 530 4 140	19 27	0.903 0.926	0.60 0.56	560.3 656.0	1979 1968	1983 1985	TCPL TCPL PRODUCTION DECLINE
						0.84		1963	1979	VECTOR POOD TCPL
2.41 1.20	0.208 0.220	0.70 0.70	4 260 4 520	27 31	0.899 0.924	0.65 0.61	694.6 681.3	1956 1980	1989 1988	MATERIAL BALANCE
3.01 4.50 3.80	0.123 0.085 0.136	0.70 0.70 0.85	11 640 21 710 21 360	59 75 73	0.850 0.894 0.784	0.63 0.61 0.85	1 625.4 2 141.4 2 025.3	1976 1973 1978	1988 1988 1989	PANALTA ESSO PROGAS PANALTA ESSO PANALTA ESSO PCI AMOCO AEC PART OF HALFWAY POOL NO.1 GAS CYCLING AEC
13.07	0.095	0.85	22 120	71	0.849	0.67	2 015.8	1988	1989	
16.26 14.00	0.216 0.250	0.70 0.80	11 440 11 580	35 34	0.800 0.797	0.70 0.68	1 055.2 1 081.8	1979 1980	1989 1988	PROGAS
3.93 2.78 0.71 0.83 1.30	0.154 0.170 0.139 0.139 0.216	0.55 0.55 0.60 0.60 0.60	3 140 4 310 4 450 4 450 5 690	16 17 19 19 27	0.937 0.916 0.916 0.916 0.904	0.56 0.56 0.56 0.56 0.56	355.7 487.7 487.7 487.7 630.0	1910 1904 1973 1973 1944	1987 1987 1988 1988 1988	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE PART OF MED HAT POOL NO.1 PART OF MED HAT POOL NO.3 PART OF MED HAT POOL NO.4 PART OF 2WS POOL NO.1 PANALTA CNG TCPL PANALTA TCPL PRODUCTION DECLINE CNG CONCURRENT PRODUCTION, OIL DEPLETED
0.86 2.73	0.181 0.164	0.55 0.60	8 450 10 410	30 35	0.856 0.839	0.60 0.60	945.0 1 046.7	1959 1970	1986 1981	
1.43 1.80	0.201 0.340	0.50 0.55	5 580 5 580	24 26	0.894 0.898	0.60 0.58	630.2 699.5	1917 1965	1984 1982	PART OF VIK POOL NO.2 MATERIAL BALANCE PART OF VIK POOL NO.2 MATERIAL BALANCE

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
VIKING-KINSELLA 047-10W4 (CONTINUED)									
U&M VIK A & U MANN YY TOTAL	35 172	0.85	0.05	29 000	18 442	10 558	37	387 162	
UPPER MANNVILLE D	608	0.75	0.05	433	330	103	37	3 761	712
UPPER MANNVILLE EE	1 220	0.80	0.05	927	815	112	36	4 038	587
UPPER MANNVILLE MMM	965	0.75	0.05	688	477	211	37	7 796	3 348
WAINWRIGHT	683	0.70	0.05	454	413	41	37	1 508	1 710
WABAMUN C	490	0.80	0.05	372	252	120	37	4 441	1 716
D-2 D	1 021	0.70	0.05	679	669	10	37	373	2 993
OTHER	13 896			8 578	4 380	4 198		155 943	
TOTAL-VIKING-KINSELLA	54 055			41 131	25 778	15 353		565 022	
VIOLET (SA) 079-02W4									
TOTAL-VIOLET	3			2		2		72	
VIRGINIA HILLS 064-13W5									
BELLOY A SOLN	632	0.40	0.30	177 ^b			39		
BELLOY A ASSOC	1 278	0.92	0.15	1 000 ^b	961 ^b	216	39	8 472	2 228
BEAVERHILL LAKE SOLN	6 709	0.35	0.35	1 526	266	1 260	43	54 382	
OTHER	550			370	14	356		13 878	
TOTAL-VIRGINIA HILLS	9 169			3 073	1 241	1 832		76 732	
VIRGO 115-06W6									
BLUESKY A	502	0.50	0.05	238			36		10 470
BLUESKY A	14	0.65	0.05	9			38		200
BLUESKY A	154	0.50	0.05	73			36		200
BLUESKY A TOTAL	670	0.50	0.05	320	185	135	36	4 926	
OTHER	4 555			2 469	303	2 166		83 492	
TOTAL-VIRGO	5 225			2 789	488	2 301		88 418	
VOYAGER 045-17W5									
TOTAL-VOYAGER	355			242		242		9 538	
VULCAN 016-24W4									
TURNER VALLEY C	1 094	0.60	0.20	526	146	380	38	14 611	1 482
OTHER	543			370	313	57		2 260	
TOTAL-VULCAN	1 637			896	459	437		16 871	
WABASCA (SA) 085-24W4									
TOTAL-WABASCA	14			7		7		258	
WAINWRIGHT 045-06W4									
VIKING	2 126	0.50	0.05	1 010			37		28 583
COLONY R	90	0.75	0.05	65			35		1 320
COLONY V ASSOC	6	0.70	0.05	4			36		160
COLONY W ASSOC	1	0.70	0.05	1			36		52
COLONY G	58	0.75	0.05	42			36		641
VIK & CLY G.R.V.W&EE TOTAL	2 281	0.50	0.05	1 122	514	608	37	22 435	
COLONY	369	0.90	0.05	315	133	182	35	6 446	1 851
SPARKY E	608	0.75	0.05	433	367	66	35	2 286	1 741
OTHER	5 119			2 592	742	1 850		65 410	
TOTAL-WAINWRIGHT	8 377			4 462	1 756	2 706		96 577	
WALRUS (SA) 082-17W5									
TOTAL-WALRUS	53			35		35		1 311	
WANYANDIE 060-01W6									
CARD SD 03-060-01	664	0.75	0.10	448		448	39	17 642	200
OTHER	768			529		529		21 181	
TOTAL-WANYANDIE	1 432			977		977		38 823	
WAPITI 067-10W6									
CADOTTE A	737	0.85	0.10	563	391	172	38	6 558	2 112
FALHER C-1	1 000	0.85	0.15	723	703	20	40	795	1 276
FALHER C-2	601	0.85	0.15	434	420	14	38	527	500
FALHER C-3	763	0.80	0.15	519	453	66	39	2 554	250
FALHER D-1	3 516	0.85	0.10	2 690	1 257	1 433	38	34 067	12 004

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.78 2.81 2.97 4.08 2.97 4.45	0.300 0.288 0.276 0.266 0.163 0.092	0.60 0.70 0.60 0.65 0.70 0.65	4 920 4 610 5 470 5 220 5 220 4 670	27 23 23 23 32 34	0.912 0.914 0.897 0.902 0.913 0.923	0.59 0.59 0.58 0.58 0.57 0.57	739.4 724.9 758.5 709.0 813.2 738.5	1917 1973 1955 1949 1955 1960	1983 1986 1989 1983 1986 1989 1987	PANALTA ESSO CWNGNUL TRITON TCPL PART OF VIK POOL NO.2 CWNGNUL TCPL MATERIAL BALANCE TCPL MATERIAL BALANCE TCPL CWNGNUL TCPL MATERIAL BALANCE CWNGNUL TCPL PRODUCTION DECLINE CWNGNUL TCPL PRODUCTION DECLINE
3.27	0.184	0.75	13 440	77	0.859	0.69 0.69 0.88	1 883.7	1961 1961 1957	1989 1989 1989	CWNGNUL A&S PREVIOUS CONCURRENT PRODUCTION CWNGNUL A&S PREVIOUS CONCURRENT PRODUCTION CWNGNUL A&S DEEP CUT SL
2.00 1.50 24.00	0.210 0.250 0.329	0.40 0.65 0.60	2 690 2 690 1 590	12 12 15	0.941 0.940 0.966	0.59 0.57 0.59	217.9 224.2 231.0	1973 1973 1973	1982 1982 1982	PART OF BLSKY POOL NO.1 PART OF BLSKY POOL NO.1 ASSIGNED WELL 10-15-115-04W6M PART OF BLSKY POOL NO.1 ASSIGNED WELL 12-24-114-05W6M PANALTA PART OF BLSKY POOL NO.1
6.37	0.101	0.60	16 820	64	0.830	0.75	1 833.6	1960	1979	TCPL
1.04 1.52 0.55 0.51 1.22	0.240 0.210 0.260 0.200 0.289	0.55 0.50 0.60 0.55 0.60	5 030 4 140 3 900 4 150 4 140	21 23 22 22 24	0.898 0.926 0.926 0.922 0.924	0.59 0.58 0.60 0.60 0.59	580.5 593.8 598.8 600.0 594.8	1942 1973 1975 1968 1973	1989 1985 1979 1979 1985	PANALTA CWNGNUL TCPL NONCOMMERCIAL OIL PANALTA TCPL PRODUCTION DECLINE
3.35 2.04	0.250 0.307	0.60 0.70	3 870 4 220	25 22	0.931 0.925	0.59 0.59	633.7 615.6	1952 1956	1977 1989	
10.70	0.200	0.89	19 610	92	0.877	0.68	2 291.0	1980	1980	
5.32 3.76 6.40 16.60 3.18	0.057 0.098 0.087 0.060 0.072	0.65 0.75 0.65 0.60 0.70	19 990 20 700 16 940 22 750 21 040	84 85 78 94 86	0.899 0.873 0.867 0.911 0.912	0.61 0.67 0.68 0.64 0.60	2 403.8 2 432.6 2 250.8 2 336.2 2 470.5	1980 1978 1980 1979 1979	1988 1987 1988 1989 1987	PANALTA TCPL DEEP CUT SL PROGAS PANALTA HOME TCPL MATERIAL BALANCE DEEP CUT SL PROGAS PANALTA HOME TCPL PRODUCTION DECLINE DEEP CUT SL PROGAS PANALTA HOME TCPL PRODUCTION DECLINE DEEP CUT SL PROGAS PANALTA TCPL DEEP CUT SL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
WAPITI 067-10W6 (CONTINUED)									
FALHER E-1	1 836	0.75	0.15	1 170	739	431	39	16 968	250
FALHER F-1	4 582	0.95	0.15	3 700	2 476	1 224	39	48 103	3 219
CADOMIN B	600	0.75	0.05	428	283	145	36	5 255	150
CADM 10-066-07	810	0.85	0.20	551		551	41	22 690	150
CADOMIN A	10 085	0.70	0.15	6 000	2	5 998	38	228 524	29 239
NIKA 30-066-10	793	0.75	0.10	536		536	37	19 837	200
NIKA 29-067-08	445	0.85	0.05	359		359	36	12 885	200
PM-PN SYS 26-066-07	575	0.75	0.20	345		345	38	12 962	440
BELL 33-067-07	423	0.80	0.10	304		304	39	11 725	200
OTHER	12 626			7 989	762	7 227		280 782	
TOTAL-WAPITI	39 392			26 311	7 486	18 825		724 232	
WAPPAU (SA) 074-11W4									
TOTAL-WAPPAU	22			15		15		558	
WARRENSVILLE (SA) 084-24W5									
TOTAL-WARRENSVILLE	257			176		176		6 702	
WARSPITE 060-18W4									
TOTAL-WARSPITE	732			479	234	245		9 138	
WARWICK 052-14W4									
UPPER MANNVILLE G	747	0.75	0.05	532	444	88	37	3 289	1 655
UPPER MANNVILLE K	996	0.75	0.05	710	615	95	37	3 522	538
UPPER MANNVILLE M	667	0.70	0.05	444	339	105	37	3 877	1 782
UPPER MANNVILLE D	399	0.75	0.05	284			37		1 662
UPPER MANNVILLE NNN	52	0.65	0.05	32			37		924
UPPER MANNVILLE D&NNN TOTAL	451	0.75	0.05	316	267	49	37	1 819	
UPPER MANNVILLE MMM	535	0.70	0.05	356	206	150	37	5 571	365
OTHER	9 704			6 476	3 176	3 300		122 607	
TOTAL-WARWICK	13 100			8 834	5 047	3 787		140 685	
WASKAHIGAN 064-23W5									
DUNVEGAN A SOLN	228	0.60	0.10	123 ^b			40		
DUNVEGAN A ASSOC	399	0.90	0.10	323 ^b	106 ^b	340	40	13 709	744
DUNVEGAN C SOLN	46	0.65	0.10	27 ^b			40		
DUNVEGAN C ASSOC	1 000	0.80	0.10	720 ^b	724 ^b	23	40	920	2 341
DUNVEGAN B	1 699	0.85	0.10	1 300	794	506	40	20 427	2 613
PEACE RIVER B	616	0.80	0.10	444	95	349	40	14 051	400
OTHER	1 282			871	34	837		32 875	
TOTAL-WASKAHIGAN	5 270			3 808	1 753	2 055		81 982	
WATCH 054-22W5									
TOTAL-WATCH	181			131		131		5 109	
WATELET 047-26W4									
TOTAL-WATELET	680			416	60	356		13 620	
WATERTON 004-01W5									
RUNDLE C	8 726	0.50	0.45	2 400	453	1 947	38	73 168	1 665
RUNDLE K	670	0.80	0.40	322	39	283	39	10 961	200
RUNDLE M	5 378	0.70	0.15	3 200		3 200	38	122 080	1 337
RUNDLE D		0.75	0.52				39		2 859
RUNDLE E		0.75	0.52				39		100
RUNDLE D & E TOTAL	18 056	0.75	0.50	6 500	4 802	1 698	39	66 052	
RUNDLE A	1 400	0.60	0.35	546			39		200
RUNDLE L	112	0.60	0.35	44			39		128
RUNDLE J	6 665	0.75	0.50	2 500			39		1 189
RUNDLE A, L & J TOTAL	8 177	0.70	0.50	3 090	451	2 639	39	103 502	
RUND 15-003-30	1 290	0.90	0.15	987		987	43	42 056	200
RUNDLE-WABAMUN A	79 529	c	c	49 300	41 788	7 512	39	294 020	5 157
WABAMUN B	924	0.85	0.28	565	304	261	37	9 592	386
WAB 31-006-03	896	0.85	0.20	610		610	37	22 698	512
PALL 03-006-03	868	0.65	0.20	451		451	37	16 601	200
WAB 20-006-03	585	0.80	0.20	374		374	37	13 909	200
WAB 09-006-03	647	0.90	0.25	437		437	37	16 068	200
OTHER	702			488		488		19 152	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.50	0.100	0.70	28 200	64	0.912	0.63	2 347.4	1981	1989	PROGAS PANALTA PRODUCTION DECLINE DEEP CUT SL
4.84	0.099	0.70	31 400	87	0.970	0.63	2 502.0	1978	1989	PROGAS PANALTA TCPL SCEPTRE HOME PRODUCTION DECLINE DEEP CUT SL
4.60	0.130	0.75	21 770	65	0.901	0.59	2 389.3	1980	1989	TCPL PRODUCTION DECLINE DEEP CUT SL
15.85	0.230	0.80	22 400	111	0.896	0.73	2 822.5	1978	1989	TCPL SCEPTRE DEEP CUT SL
4.39	0.047	0.70	21 420	88	0.892	0.67	2 805.2	1977	1988	PROGAS PANALTA HOME TCPL PART OF CDM POOL NO.1 DEEP CUT SL
19.30	0.110	0.85	25 000	77	0.924	0.60	2 914.0	1980	1984	DEEP CUT SL
11.40	0.110	0.80	24 700	69	0.927	0.58	2 606.1	1981	1984	PROGAS PANALTA HOME TCPL DEEP CUT SL
6.70	0.120	0.75	29 800	125	0.982	0.65	3 191.2	1956	1982	PROGAS BER
16.00	0.135	0.55	22 930	117	0.939	0.68	2 956.2	1980	1981	TCPL BER
1.70	0.280	0.75	4 930	27	0.907	0.58	760.5	1970	1988	TCPL PRODUCTION DECLINE
6.85	0.280	0.80	4 760	30	0.917	0.57	701.5	1970	1985	TCPL MATERIAL BALANCE
2.85	0.238	0.65	4 700	34	0.923	0.58	749.6	1970	1989	TCPL PRODUCTION DECLINE
1.39	0.236	0.50	4 740	30	0.919	0.56	731.1	1970	1986	MATERIAL BALANCE
0.89	0.232	0.55	4 690	24	0.913	0.56	717.2	1980	1984	
								1970	1986	TCPL
2.41	0.240	0.70	4 610	27	0.917	0.57	701.2	1971	1987	TCPL MATERIAL BALANCE
4.97	0.163	0.65	10 240	63	0.852	0.65	1 544.1	1967	1988	A&S CONCURRENT PRODUCTION
						0.65		1967	1988	A&S CONCURRENT PRODUCTION
								1959	1987	A&S PRODUCTION DECLINE CONCURRENT PRODUCTION
2.80	0.140	0.55	10 240	63	0.853	0.65	1 501.1	1959	1987	A&S PRODUCTION DECLINE CONCURRENT PRODUCTION
2.87	0.120	0.65	10 360	64	0.846	0.67	1 588.4	1961	1988	A&S MATERIAL BALANCE
2.45	0.150	0.70	12 380	64	0.846	0.64	1 810.6	1981	1989	BVI MATERIAL BALANCE
34.85	0.054	0.85	38 590	86	0.933	0.83	3 489.8	1957	1988	A&S DEEP CUT SL
24.40	0.054	0.85	34 270	86	0.908	0.86	3 631.6	1958	1989	A&S
27.84	0.063	0.80	40 410	102	1.069	0.63	4 387.0	1981	1989	TOP/BASE TVD
28.99	0.043	0.80	34 300	80	0.834	0.95	3 566.7	1957	1988	MATERIAL BALANCE TOP/BASE TVD, DEEP CUT SL
37.50	0.050	0.80	34 300	80	0.834	0.95	3 277.4	1960	1988	MATERIAL BALANCE DEEP CUT SL
								1957	1988	A&S DEEP CUT SL
21.60	0.052	0.80	29 765	75	0.858	0.85	2 956.6	1960	1989	MATERIAL BALANCE TOP/BASE TVD, DEEP CUT SL
5.40	0.070	0.80	31 890	80	0.889	0.85	3 063.6	1970	1989	TOP/BASE TVD, DEEP CUT SL
34.47	0.059	0.85	32 560	80	0.809	0.94	3 226.9	1970	1989	TOP/BASE TVD, DEEP CUT SL
								1960	1989	A&S DEEP CUT SL
52.70	0.050	0.90	34 200	96	0.969	0.79	3 196.7	1987	1988	A&S TOP/BASE TVD
43.19	0.050	0.80	32 960	69	0.879	0.97	3 049.1	1989	1988	A&S GAS CYCLING, TOP/BASE TVD
19.30	0.053	0.80	40 800	101	1.058	0.65	4 191.3	1958	1982	PROGAS MATERIAL BALANCE
17.89	0.053	0.80	27 720	96	0.926	0.67	3 710.8	1964	1987	PROGAS
38.30	0.050	0.80	35 210	83	0.993	0.65	3 427.5	1981	1983	PROGAS
27.00	0.050	0.80	36 090	105	1.002	0.67	3 662.5	1979	1989	PROGAS A&S
24.90	0.050	0.90	36 460	90	0.989	0.68	3 395.4	1988	1989	PROGAS A&S

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
WATERTON 004-01W5 (CONTINUED)									
TOTAL-WATERTON	126 448			68 724	47 837	20 887		809 859	
WATTS 031-16W4									
BANFF D SOLN	50	0.65	0.15	28 ^b			42		
BANFF D ASSOC	397	0.85	0.15	286 ^b	182 ^b	132	42	5 555	949
OTHER	2 312			† 433	421	† 012		39 190	
TOTAL-WATTS	2 759			1 747	603	† 144		44 745	
WAVY LAKE 043-14W4									
TOTAL-WAVY LAKE	711			473	107	366		13 737	
WAYNE-ROSEDALE 027-19W4									
BELLY RIVER A	554	0.90	0.05	474	408	66	37	2 426	785
BELLY RIVER J	35	0.65	0.05	22			37		250
BELLY RIVER K	531	0.60	0.05	303			37		3 512
BELLY RIVER X	7	0.50	0.05	4			37		128
BELLY RIVER J,K & X TOTAL	573	0.60	0.05	329	46	283	37	10 471	
MEDICINE HAT A	1 664	0.70	0.03	1 130			36		25 907
SE ALTA GAS SYS (MU) TOTAL	1 664	0.70	0.05	1 130		1 130	36	41 211	
VIKING A	3 435	0.95	0.05	3 100	2 980	120	39	4 703	25 593
VIKING B	676	0.90	0.05	578	421	157	39	6 081	3 280
GLAUCONITIC A	1 050	0.90	0.10	851	846	5	40	198	1 625
GLAUCONITIC G	909	0.90	0.10	736	646	90	39	3 546	975
GLAUCONITIC T	2 139	0.80	0.10	† 540	552	988	39	38 512	8 079
OSTRACOD A	639	0.85	0.05	516	368	148	39	5 805	150
BASAL QUARTZ E SOLN	185	0.60	0.10	100 ^b			38		
BASAL QUARTZ E ASSOC	421	0.80	0.10	303 ^b	65 ^b	338	38	12 719	684
BASAL QUARTZ EEE	488	0.70	0.10	308	165	143	40	5 654	615
OTHER	12 372			6 258	2 486	3 772		145 642	
TOTAL-WAYNE-ROSEDALE	25 105			16 223	8 983	7 240		276 968	
WEALD 050-19W5									
TOTAL-WEALD	574			417		417		16 541	
WEASEL 058-19W4									
TOTAL-WEASEL	184			127		127		4 719	
WEASONE (SA) 062-09W5									
TOTAL-WEASONE	100			67		67		2 655	
WEBSTER 074-05W6									
LOWER MANNVILLE A	767	0.80	0.10	553	57	496	40	19 731	2 052
OTHER	817			598	271	327		12 644	
TOTAL-WEBSTER	† 584			† 151	328	823		32 375	
WELLBURN 009-18W4									
TOTAL-WELLBURN	48			26	26				
WEMBLEY 073-08W6									
HALFWAY B SOLN	4 209	0.65	0.30	1 915		1 915	42	79 856	
HALFWAY B ASSOC	6 093	0	0	4 400	99	4 301	42	179 352	5 930
DOIG E SOLN	456	0.65	0.25	222 ^b			41		
DOIG E ASSOC	1 691	0.80	0.15	1 150 ^b	166 ^b	1 206	41	49 904	1 558
OTHER	1 909			1 269	74	1 195		44 589	
TOTAL-WEMBLEY	14 358			8 956	339	8 617		353 701	
WERNER 034-12W4									
TOTAL-WERNER	263			177	6	171		6 107	
WEST COVE 055-06W5									
NORD-BNFF 20-055 ASSOC	441	0.85	0.10	338		338	40	13 557	200
OTHER	528			341		341		13 479	
TOTAL-WEST COVE	969			679		679		27 036	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
3.63	0.126	0.75	9 300	37	0.700	0.81 0.81	1 203.9	1984 1984	1989 1989	POCO CONCURRENT PRODUCTION POCO CONCURRENT PRODUCTION
2.96	0.145	0.50	6 130	22	0.890	0.56	645.8	1960	1988	CWNGNUL TCPL MATERIAL BALANCE
4.00	0.260	0.45	2 900	18	0.943	0.56	505.0	1978	1988	
3.42	0.236	0.60	3 080	24	0.944	0.56	702.6	1977	1987	
1.30	0.240	0.60	2 850	23	0.947	0.56	649.7	1981	1984	
1.36	0.170	0.55	4 310	17	0.916	0.56	487.7	1977	1984	TCPL
2.06	0.200	0.70	8 070	38	0.847	0.63	1 184.8	1904	1987	PART OF MED HAT POOL NO.1
2.87	0.174	0.40	8 070	38	0.849	0.64	1 214.2	1953	1982	POCO SOQUIP TCPL
4.75	0.198	0.70	10 070	42	0.797	0.69	1 330.1	1953	1982	PANALTA CWNGNUL SOQUIP DIRECT TCPL
4.42	0.180	0.75	11 110	41	0.794	0.68	1 331.9	1957	1989	MATERIAL BALANCE
2.49	0.167	0.60	9 670	40	0.828	0.64	1 294.0	1966	1987	TCPL MATERIAL BALANCE
2.74	0.200	0.65	10 100	46	0.818	0.67	1 339.8	1962	1989	TCPL MATERIAL BALANCE
6.20	0.167	0.50	10 340	38	0.796	0.70	1 341.0	1959	1987	TCPL PRODUCTION DECLINE
6.80	0.178	0.60	9 810	42	0.811	0.67	1 232.2	1966	1982	TCPL PART OF GLAUC POOL NO.4
										TCPL PRODUCTION DECLINE
										TCPL CONCURRENT PRODUCTION
										TCPL CONCURRENT PRODUCTION
										POCO TCPL
3.38	0.140	0.55	14 690	75	0.836	0.70	1 665.1	1973	1977	CWNGNUL SCEPTRE TCPL
4.82	0.119	0.80	21 360	73	0.784	0.85 0.85	2 038.2	1978 1978	1989 1989	PROGAS PANALTA ESSO PCI AMOCO AEC PART OF HALFWAY POOL NO.1 GAS CYCLING SCHEME, DEEP CUT SL
8.11	0.080	0.80	21 550	75	0.842	0.71 0.71	2 116.4	1980 1980	1989 1989	PROGAS PANALTA ESSO PCI AMOCO AEC PART OF HALFWAY POOL NO.1 GAS CYCLING SCHEME, DEEP CUT SL
13.63	0.181	0.65	12 250	47	0.791	0.67	1 499.7	1984	1988	PROGAS PANALTA CONCURRENT PRODUCTION, DEEP CUT SL

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
WEST DRUMHELLER 029-21W4 TOTAL-WEST DRUMHELLER	1 175			249	76	173		6 775	
WESTEROSE 046-28W4 UPPER MANNVILLE B	2 778	0.80	0.10	2 000	864	1 136	40	45 088	4 149
D-3 SOLN	5 146	0.71	0.15	3 106 ^b			41		
D-3 ASSOC	3 597	c	c	3 000 ^b	2 811 ^b	3 295	41	133 810	513
OTHER	2 428			1 608	91	1 517		59 377	
TOTAL-WESTEROSE	13 949			9 714	3 766	5 948		238 275	
WESTEROSE SOUTH 044-01W5 GLAUCONITIC A	24 761	0.70	0.10	15 600			40		24 574
BASAL QUARTZ F	55	0.70	0.10	35			39		150
GLAUC A & BSL QTZ F TOTAL	24 816	0.70	0.10	15 635	5 049	10 586	40	418 147	
D-3 A	52 006	0.88	0.15	38 900	38 848	52	41	2 107	4 770
OTHER	2 952			1 947	80	1 867		72 807	
TOTAL-WESTEROSE SOUTH	79 774			56 482	43 977	12 505		493 061	
WESTLOCK 059-26W4 VIKING U	389	0.85	0.04	318	46	272	38	10 371	5 538
VIKING		0.95	0.04				38		34 319
VIKING B		0.80	0.05				38		10 198
VIKING I		0.95	0.04				38		4 811
VIKING J		0.95	0.04				38		400
VIKING K		0.95	0.04				38		2 531
VIKING L		0.95	0.04				38		1 893
VIKING M		0.95	0.04				38		916
VIKING N		0.95	0.04				38		5 828
VIKING P		0.95	0.04				38		1 461
VIKING Q		0.95	0.04				38		200
VIK,VIK BIJUKLMNOP & Q TOTAL	13 377	0.95	0.05	12 200	10 177	2 023	38	77 177	
MIDDLE VIKING B	373	0.90	0.04	323	274	49	38	1 872	944
LOWER MANNVILLE B	1 151	0.75	0.10	777	299	478	39	18 714	2 109
OTHER	2 599			1 781	337	1 444		54 602	
TOTAL-WESTLOCK	17 889			15 399	11 133	4 266		162 736	
WESTPEM 049-13W5 ELRS 26-049-13	694	0.50	0.10	312		312	39	12 283	128
BLUE 14-049-13	447	0.80	0.15	304		304	42	12 792	200
NISKU E	1 160	c	c	709	149	560	42	23 302	87
OTHER	2 582			1 238	-882	2 120		86 657	
TOTAL-WESTPEM	4 883			2 563	-733	3 296		135 034	
WETASKIWIN 045-24W4 TOTAL-WETASKIWIN	322			214		214		8 158	
WHISKEY 022-05W5 RUNDLE A	2 651	0.40	0.15	901	67	834	41	34 027	440
PALL 04-022-05	2 123	0.50	0.65	372		372	38	14 062	200
OTHER	70			42		42		1 693	
TOTAL-WHISKEY	4 844			1 315	67	1 248		49 782	
WHITE ROSE (SA) 118-01W6 TOTAL-WHITE ROSE	5			4		4		147	
WHITECOURT 060-11W5 CADOMIN A		0.80	0.10				40		200
JURASSIC E		0.80	0.10				40		1 847
CADOMIN A&JURASSIC E TOTAL	2 195	0.80	0.10	1 580	1 279	301	40	11 920	
JURASSIC C	4 444	0.75	0.10	3 000	1 480	1 520	39	59 265	872
JURASSIC D	2 888	0.50	0.10	1 300	442	858	39	33 711	2 474
PEKISKO E	4 741	0.75	0.10	3 200	1 370	1 830	39	71 681	5 027
OTHER	1 488			1 018	198	820		31 811	
TOTAL-WHITECOURT	15 756			10 098	4 769	5 329		208 388	
WHITEHORSE 049-15W5 NIS 20-050-15	502	0.80	0.15	342		342	37	12 808	128
OTHER	1 363			911	30	881		35 066	
TOTAL-WHITEHORSE	1 865			1 253	30	1 223		47 874	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
7.07	0.128	0.55	11 760	46	0.779	0.71	1 686.0	1978	1989	PROGAS PANALTA A&S TCPL BVI SOQUIP PSR KANNGAZ
57.33	0.080	0.90	17 470	81	0.826	0.80	2 129.1	1952	1987	GAS CYCLING, CONCURRENT PRODUCTION
								1952	1987	GAS CYCLING, CONCURRENT PRODUCTION
9.02	0.124	0.55	16 600	73	0.833	0.70	1 842.5	1977	1989	
2.40	0.130	0.75	15 750	70	0.834	0.68	1 822.9	1987	1987	
								1977	1988	GULF SOQUIP PROGAS A&S TCPL KANNGAZ
75.90	0.085	0.90	18 960	83	0.814	0.81	2 325.1	1954	1987	A&S TCPL MATERIAL BALANCE PREVIOUS GAS CYCLING
0.98	0.200	0.60	5 820	37	0.894	0.62	794.6	1959	1988	ESSO TCPL
2.15	0.200	0.50	5 820	37	0.897	0.60	774.4	1949	1989	MATERIAL BALANCE
0.85	0.190	0.60	5 640	33	0.901	0.59	722.2	1972	1988	MATERIAL BALANCE
1.50	0.203	0.65	5 820	37	0.897	0.60	759.4	1953	1984	MATERIAL BALANCE
1.25	0.206	0.60	5 820	37	0.897	0.60	767.2	1955	1984	MATERIAL BALANCE
1.02	0.190	0.60	5 820	37	0.897	0.60	748.7	1949	1984	MATERIAL BALANCE
0.62	0.130	0.50	5 820	37	0.897	0.60	783.8	1954	1984	MATERIAL BALANCE
0.77	0.190	0.65	5 820	37	0.897	0.60	724.1	1961	1984	MATERIAL BALANCE
0.78	0.166	0.65	5 820	37	0.897	0.60	790.5	1953	1989	MATERIAL BALANCE
1.32	0.191	0.65	5 820	37	0.897	0.61	734.2	1959	1984	MATERIAL BALANCE
1.20	0.192	0.65	5 820	37	0.897	0.61	718.7	1961	1984	MATERIAL BALANCE
								1949	1984	PANALTA CWNGNUL PCI ESSO PWGE TCPL
2.82	0.200	0.60	5 820	37	0.897	0.60	784.3	1947	1988	CWNGNUL PART OF VIK POOL NO.1 PRODUCTION
4.76	0.206	0.80	6 670	36	0.882	0.61	949.8	1951	1989	DECLINE CWNGNUL ESSO TCPL
27.40	0.150	0.80	19 380	104	0.887	0.70	2 479.7	1986	1987	
10.47	0.090	0.80	39 720	91	1.047	0.78	3 099.6	1980	1989	TOP/BASE TVD
39.30	0.106	0.90	39 720	106	1.083	1.10	3 148.9	1978	1982	A&S BLOWDOWN - PREVIOUS GAS CYCLING
41.50	0.076	0.75	26 300	77	0.839	0.86	3 522.9	1968	1989	TCPL TOP/BASE TVD
46.25	0.077	0.85	32 090	85	0.727	0.98	3 803.5	1980	1988	TCPL
10.67	0.168	0.50	12 830	66	0.855	0.65	1 507.9	1963	1987	MATERIAL BALANCE
5.25	0.168	0.50	12 830	66	0.855	0.65	1 546.3	1963	1987	MATERIAL BALANCE
								1962	1987	TCPL
2.78	0.161	0.65	12 700	63	0.860	0.63	1 533.1	1968	1985	A&S TCPL MATERIAL BALANCE
8.61	0.172	0.65	12 170	64	0.847	0.68	1 580.8	1965	1989	PROGAS DEVNIC TCPL
9.84	0.118	0.65	12 780	66	0.858	0.65	1 585.0	1963	1989	PROGAS PANALTA TCPL
21.45	0.089	0.95	29 140	117	0.982	0.63	3 276.5	1981	1987	PROGAS TCPL BER

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
WITELAW 082-02W6									
SPIRIT RIVER F	310	0.80	0.05	236			38		1 629
SPIRIT RIVER G	260	0.65	0.05	161			37		2 119
SPIRIT RIVER H	185	0.65	0.05	114			37		1 668
SPIRIT RIVER FG & H TOTAL	755	0.70	0.05	511	204	307	37	11 500	
BLUESKY A	378	0.75	0.05	270			38		2 025
GETHING A	385	0.85	0.10	294			40		2 167
BLSKY A & GETH A TOTAL	763	0.80	0.10	564	140	424	39	16 430	
GETHING B	562	0.80	0.05	428	301	127	38	4 785	1 747
TRIASSIC A	618	0.90	0.10	501		501	39	19 474	816
OTHER	745			468	96	372		13 973	
TOTAL-WITELAW	3 443			2 472	741	1 731		66 162	
WHITEMUD 051-25W4									
TOTAL-WHITEMUD	278			184	28	156		6 087	
WHITFORD 058-16W4									
VIKING A	1 063	0.40	0.05	404	46	358	37	13 232	17 559
OTHER	1 844			1 172	358	814		30 318	
TOTAL-WHITFORD	2 907			1 576	404	1 172		43 550	
WIDewater 073-08W5									
TOTAL-WIDewater	225			157		157		5 767	
WILD HORSE CREEK 031-10W5									
RUNDLE A	2 084	0.45	0.20	750	692	58	38	2 188	668
TOTAL-WILD HORSE CREEK	2 084			750	692	58		2 188	
WILD RIVER 056-24W5									
WABAMUN A	648	0.85	0.15	468		468	38	17 742	64
NISKU A	926	0.90	0.10	750		750	39	29 228	200
LED 16-056-23	833	0.80	0.05	633		633	37	23 237	200
OTHER	1 394			983		983		38 655	
TOTAL-WILD RIVER	3 801			2 834		2 834		108 862	
WILDCAT HILLS 027-06W5									
RUNDLE A	29 411	0.88	0.15	22 000	16 347	5 653	39	217 697	4 062
TOTAL-WILDCAT HILLS	29 411			22 000	16 347	5 653		217 697	
WILDMERE 048-05W4									
TOTAL-WILDMERE	6 273			4 199	1 135	3 064		110 162	
WILDUNN CREEK 029-14W4									
VIKING B	624	0.70	0.05	415	140	275	38	10 527	2 158
OTHER	393			235	109	126		4 631	
TOTAL-WILDUNN CREEK	1 017			650	249	401		15 158	
WILDWOOD 054-09W5									
TOTAL-WILDWOOD	516			351		351		13 820	
WILKINS 042-08W4									
TOTAL-WILKINS	154			103		103		3 742	
WILLESSEN GREEN 042-07W5									
BELLY RIVER U SOLN	12	0.60	0.40	4b			39		
BELLY RIVER J ASSOC	543	0.65	0.10	318b	153b	169	39	6 672	591
BELLY RIVER E	899	0.80	0.10	547	55	591	41	24 432	1 464
CARDIUM A ASSOC	1 050	0.85	0.15	759b			41		3 934
CARDIUM A SOLN	21 701	0.37	0.54	3 693b			41		
CARDIUM A ASSOC	998	0.85	0.10	763b			40		4 697
CARDIUM A TOTAL	23 746	0.40	0.45	5 194b	3 048b	2 146	41	87 986	
VIKING A SOLN	1 093	0.65	0.15	604b			41		
VIKING A ASSOC	272	0.70	0.15	162b	569b	197	41	8 126	467
GLAUCONITIC C	8 413	0.70	0.10	5 300			40		8 772
ELLERSLIE G	2 033	0.50	0.15	864			41		2 217
GLAUC C & ELLSL G TOTAL	10 446	0.65	0.10	6 164	779	5 385	40	218 039	
OTHER	10 102			6 092	727	5 365		217 583	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
2.29	0.250	0.50	6 410	33	0.897	0.56	716.0	1977	1980	TCPL CWNGNUL TCPL CWNGNUL TCPL CWNGNUL
2.02	0.230	0.50	5 140	30	0.914	0.55	620.6	1977	1978	
1.25	0.280	0.50	6 100	33	0.894	0.59	683.7	1977	1982	
								1977	1980	
1.93	0.176	0.65	7 860	30	0.872	0.56	846.0	1950	1985	
1.83	0.190	0.65	7 440	40	0.861	0.62	870.9	1951	1985	
								1950	1985	
3.26	0.190	0.65	7 540	33	0.877	0.57	877.6	1959	1985	
3.51	0.210	0.70	9 860	40	0.813	0.67	997.3	1950	1973	
1.06	0.252	0.50	4 240	18	0.914	0.58	464.7	1949	1989	PANALTA ESSO CWNGNUL TCPL PART OF VIK POOL NO.6
26.69	0.077	0.85	21 720	62	0.858	0.66	2 164.5	1960	1984	A&S TCPL MATERIAL BALANCE TOP/BASE TVD
127.10	0.036	0.80	42 540	127	1.093	0.64	3 611.3	1968	1983	A&S
24.40	0.060	0.85	73 580	110	1.468	0.67	3 972.4	1972	1989	
27.00	0.070	0.80	40 600	110	1.094	0.56	4 167.1	1980	1982	
43.30	0.073	0.85	26 960	84	0.921	0.69	2 982.0	1958	1984	CWNGNUL A&S TCPL MATERIAL BALANCE TOP/BASE TVD
2.29	0.251	0.60	7 790	33	0.864	0.58	948.7	1953	1981	TCPL
3.36	0.150	0.75	9 130	41	0.813	0.68	1 536.1	1955	1989	PRODUCTION DECLINE CONCURRENT PRODUCTION PRODUCTION DECLINE CONCURRENT PRODUCTION A&S
6.05	0.141	0.60	10 550	46	0.784	0.69	1 545.2	1959	1988	
1.88	0.118	0.55	20 170	58	0.792	0.72	1 788.2	1954	1989	
2.94	0.095	0.35	19 830	58	0.784	0.74	1 831.1	1954	1987	CONCURRENT PRODUCTION UNIGAS PROGAS ESSO DIRECT DEKALB A&S TCPL PSR CONCURRENT PRODUCTION POCO KANNGAZ DEKALB A&S TCPL CONCURRENT PRODUCTION POCO KANNGAZ DEKALB A&S TCPL CONCURRENT PRODUCTION
						0.76		1954	1989	
								1956	1988	
3.32	0.132	0.70	17 170	63	0.765	0.76	2 317.8	1956	1988	
5.92	0.110	0.65	25 500	85	0.894	0.70	2 361.5	1978	1989	SOQUIP PROGAS AMOCO POCO NORCEN ICG DEKALB A&S
4.58	0.109	0.80	24 610	79	0.866	0.75	2 336.6	1964	1987	
								1964	1988	

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
WILLESDEN GREEN 042-07W5 (CONTINUED)									
TOTAL-WILLESDEN GREEN	47 113			19 185	5 332	13 853		562 838	
WILLINGDON 055-15W4									
TOTAL-WILLINGDON	5 491			3 516	2 019	1 497		56 164	
WILLOW 028-17W4									
TOTAL-WILLOW	354			243	126	117		4 483	
WILSON CREEK 043-04W5									
BELLY RIVER A SOLN	897	0.65	0.20	466 ^b			39		
BELLY RIVER A ASSOC	177	0.60	0.10	95 ^b	70 ^b	491	39	19 144	518
GLAUCONITIC A	2 078	0.70	0.10	1 310	131	1 179	40	46 983	6 478
PEKISKO A	1 619	0.85	0.15	1 170	517	653	40	26 270	2 063
PEKISKO B	2 530	0.80	0.15	1 720	73	1 647	41	67 856	4 517
BANFF C	665	0.85	0.15	480	335	145	41	5 919	1 208
OTHER	2 352			1 566	454	1 112		44 115	
TOTAL-WILSON CREEK	10 318			6 807	1 580	5 227		210 287	
WIMBORNE 034-26W4									
D-2 B ASSOC	718	0.85	0.40	366		366	41	14 849	1 085
D-3 A SOLN	3 090	0.27	0.32	567 ^b			35		
D-3 A ASSOC	11 765	0.85	0.25	7 500 ^b	5 273 ^b	2 794	35	96 952	6 093
OTHER	1 558			848	263	585		22 196	
TOTAL-WIMBORNE	17 131			9 281	5 536	3 745		133 997	
WINAGAMI 077-18W5									
TOTAL-WINAGAMI	169			114		114		4 348	
WINCHELL COULEE 029-06W5									
TOTAL-WINCHELL COULEE	111			74		74		2 931	
WINDFALL 060-15W5									
VIKING A	505	0.80	0.10	364	6	358	39	13 905	3 242
RUNDLE C	527	0.85	0.10	403	176	227	37	8 320	3 411
D-3 A SOLN	4 502	0.22	0.35	644 ^b			38		
D-3 A ASSOC	21 288			7 560 ^b	5 883 ^b	2 321	38	88 314	4 738
OTHER	6 067			2 743	878	1 865		70 820	
TOTAL-WINDFALL	32 889			11 714	6 943	4 771		181 359	
WINDY 049-04W4									
TOTAL-WINDY	97			61	12	49		1 632	
WINTERING HILLS 025-17W4									
MILK RIVER A	1 940	0.70	0.05	1 290			36		22 242
MEDICINE HAT A	5 861	0.70	0.03	3 980			36		55 909
SE ALTA GAS SYS(MU) TOTAL	7 801	0.70	0.05	5 270	204	5 066	36	184 757	
UPPER MANNVILLE K	417	0.90	0.20	300	18	282	43	12 177	1 590
ELLERSLIE A ASSOC	2 014	0.80	0.05	1 530	123	1 407	39	54 845	3 896
OTHER	4 259			2 777	1 074	1 703		64 891	
TOTAL-WINTERING HILLS	14 491			9 877	1 419	8 458		316 670	
WIZARD LAKE 048-27W4									
D-3 A SOLN	7 303	0.87	0.13	5 528	5 525	3	47	141	
OTHER	1 042			658	-7 052	7 710		359 872	
TOTAL-WIZARD LAKE	8 345			6 186	-1 527	7 713		360 013	
WOKING 075-05W6									
BLUESKY B	435	0.80	0.05	331	215	116	38	4 428	861
OTHER	2 094			1 348	359	989		37 898	
TOTAL-WOKING	2 529			1 679	574	1 105		42 326	
WOLF 054-16W5									
TOTAL-WOLF	539			354		354		13 842	
WOLF SOUTH 051-15W5									
JUR SS 11-051-15	596	0.80	0.05	453		453	39	17 549	200
OTHER	336			226		226		8 848	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
						0.67		1979	1989	POCO TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION STUDY PENDING
3.71	0.139	0.55	5 900	40	0.876	0.67	1 269.6	1979	1989	POCO TCPL PRODUCTION DECLINE CONCURRENT PRODUCTION STUDY PENDING
2.82	0.110	0.65	16 880	82	0.850	0.69	2 058.6	1970	1989	PROGAS VECTOR KANNGAZ DIRECT TCPL
8.99	0.065	0.75	19 270	87	0.850	0.76	2 137.0	1960	1989	A&S TCPL
6.43	0.059	0.85	18 600	84	0.853	0.71	2 150.4	1966	1989	PROGAS VECTOR NRTHRGE NORCEN A&S TCPL
3.96	0.090	0.75	18 890	57	0.791	0.73	2 123.4	1979	1989	TCPL
						0.88	2 229.8	1956	1989	TCPL
7.81	0.053	0.70	20 370	79	0.721	0.82	2 284.7	1954	1987	TCPL CONCURRENT PRODUCTION
13.63	0.079	0.90	20 750	80	0.839	0.82		1954	1987	TCPL CONCURRENT PRODUCTION
						0.64	1 571.9	1955	1978	PROGAS
1.71	0.084	0.80	10 820	48	0.832	0.63	1 908.0	1956	1978	PROGAS
1.70	0.075	0.80	16 720	79	0.891	0.85		1955	1987	PROGAS A&S BLOWDOWN - PREVIOUS GAS CYCLING
32.92	0.063	0.85	26 100	104	0.856	0.85	2 582.9	1955	1987	PROGAS A&S BLOWDOWN - PREVIOUS GAS CYCLING
						0.56	355.7	1910	1987	PART OF MILK RIV POOL NO.1 PRODUCTION DECLINE
3.45	0.154	0.55	3 140	16	0.937	0.56	487.7	1904	1987	PART OF MED HAT POOL NO.1
2.43	0.170	0.55	4 310	17	0.916	0.83	1 169.4	1904	1983	PROGAS PANALTA TCPL
1.24	0.229	0.65	9 810	33	0.642	0.66	1 174.1	1979	1982	TCPL
4.85	0.178	0.55	9 690	38	0.814			1963	1988	PANALTA TCPL PART OF ELRSL POOL NO.1 CONCURRENT PRODUCTION
						0.92		1951	1989	
1.91	0.180	0.65	12 160	46	0.842	0.60	1 406.1	1959	1986	PANALTA CWNGNUL MATERIAL BALANCE
11.80	0.150	0.85	21 230	70	0.888	0.58	2 600.6	1981	1983	AMOCO BER

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
WOLF SOUTH 051-15W5 (CONTINUED)									
TOTAL-WOLF SOUTH	932			679		679		26 397	
WOLVERINE 098-15W5									
TOTAL-WOLVERINE	187			110		110		3 842	
WOOD RIVER 043-23W4									
LOWER MANNVILLE B	545	0.80	0.10	392	248	144	41	5 891	394
OTHER	3 340			2 046	320	1 726		66 935	
TOTAL-WOOD RIVER	3 885			2 438	568	1 870		72 826	
WOODENHOUSE (SA) 087-22W4									
TOTAL-WOODENHOUSE	275			132		132		4 854	
WOODLAND 060-19W4									
TOTAL-WOODLAND	187			120	23	97		3 648	
WOOLFORD (SA) 002-24W4									
TOTAL-WOOLFORD	52			21		21		809	
WORKMAN 031-26W4									
TOTAL-WORKMAN	198			113	37	76		2 943	
WORSLEY 087-07W6									
D-3 A	761	0.85	0.07	602	514	88	37	3 254	† 367
D-3 B	827	0.90	0.07	692	682	10	36	365	† 726
D-3 D	† 520	0.85	0.07	† 202	† 202	< †	34	-	440
D-3 E	817	0.75	0.05	582	582	< †	35	-	400
D-3 G	1 803	0.40	0.05	685	685	< †	37	-	† 351
GRANITE WASH A	540	0.85	0.10	413	413	< †	37	-	128
OTHER	2 327			1 541	356	1 185		44 144	
TOTAL-WORSLEY	8 595			5 717	4 434	1 283		47 763	
WRENTHAM 006-16W4									
TOTAL-WRENTHAM	105			65	2	63		2 166	
WROE (SA) 056-25W5									
TOTAL-WROE	305			216		216		7 824	
YEKAU LAKE 052-26W4									
TOTAL-YEKAU LAKE	412			221	67	154		5 760	
YELLOWSTONE (SA) 071-13W5									
TOTAL-YELLOWSTONE	19			12		12		466	
YOUNGSTOWN 031-10W4									
TOTAL-YOUNGSTOWN	457			291	46	245		9 261	
ZAMA 118-05W6									
SULPHUR POINT I	628	0.85	0.15	454		454	38	17 093	498
OTHER	9 996			5 848	659	5 189		198 358	
TOTAL-ZAMA	10 624			6 302	659	5 643		215 451	
ZEUES (SA) 119-11W6									
TOTAL-ZEUES	9			7		7		262	

10	11	12	13	14	15	16	17	18	19	20
AVERAGE PAY THICKNESS	POROSITY	GAS SATN	INITIAL PRESSURE	TEMP	COMPRESS	RAW GAS RELATIVE DENSITY	MEAN FORMATION DEPTH	DISC YEAR	DATE LAST REVIEWED	DISPOSITION AND REMARKS
m	frac	frac	kPa	°C	frac	frac	m			
5.24	0.156	0.70	10 470	51	0.794	0.75	1 418.5	1958	1979	TCPL MATERIAL BALANCE
8.53	0.059	0.80	22 820	85	0.904	0.67	2 253.1	1960	1969	MATERIAL BALANCE
17.14	0.063	0.80	22 380	83	0.908	0.65	2 212.6	1960	1984	MATERIAL BALANCE
12.20	0.099	0.80	21 330	83	0.906	0.70	2 141.9	1961	1987	
15.85	0.109	0.85	21 230	76	0.906	0.66	2 299.3	1965	1987	
13.76	0.059	0.80	22 750	83	0.900	0.68	2 221.1	1959	1986	
25.00	0.176	0.85	20 340	91	0.907	0.65	2 263.7	1975	1989	
14.08	0.081	0.85	13 100	60	0.860	0.66	1 353.9	1968	1969	PROGAS

TABLE 4-5

FIELD AND/OR GAS STRIKE AREA POOL OR ZONE	1	2	3	4	5	6	7	8	9
	RAW GAS			MARKETABLE GAS					AREA
	INITIAL VOLUME IN PLACE 10 ⁶ m ³	POOL RECOVERY frac	SURFACE LOSS frac	INITIAL ESTABLISHED RESERVES 10 ⁶ m ³	NET CUMULATIVE PRODUCTION 10 ⁶ m ³	REMAINING ESTABLISHED RESERVES 10 ⁶ m ³	GROSS HEAT VALUE MJ/m ³	REMAINING ENERGY CONTENT TJ	
TOTAL NON-CONFIDENTIAL POOLS	5 397 800			3 186 306	1 549 297	1 637 009		63 033 551	
TOTAL CONFIDENTIAL POOLS	19 522			12 718		12 718		479 358	
PROVINCIAL TOTAL	5 417 322			3 199 024	1 549 297	1 649 727		63 512 909	
ETHANE AND NGL RECOVERABLE AT REPROCESSING PLANTS						55 500		4 450 000	
PROVINCIAL RESERVES MINUS ETHANE AND NGL						1 594 227		59 062 909	
WITHIN ECONOMIC REACH	5 304 986			3 133 160	1 549 297	1 583 863		61 028 956	
BEYOND ECONOMIC REACH	112 336			65 864		65 864		2 483 953	
ASSOCIATED	606 242			400 374 ^b	340 836 ^b	282 940		11 325 282	
SOLUTION	681 675			223 402 ^b					
NON-ASSOCIATED	4 129 405			2 575 248	1 208 461	1 366 787		52 187 627	

a MEASURED HEATING VALUE.

b INCLUDES SOLUTION GAS PRODUCTION.

c POOL RECOVERY AND SURFACE LOSS CALCULATED ON AN ENERGY BASIS. SEE TABLE 4-2.

[illegible]

5 ETHANE CONTENT OF GAS

This chapter discusses the 1989 production of ethane and presents the Board's estimate of the total volume of ethane contained in the remaining established reserves of gas. Although the Board believes that ethane extraction at crude-oil refineries and at plants processing synthetic crude oil may become viable in the future, it has not attempted to estimate the prospective reserves from those sources. The effect of future ethane recovery at gas reprocessing plants on Alberta's remaining established reserves of marketable gas is discussed in Chapter 4.

Ethane is defined in the Oil and Gas Conservation Act as "in addition to its normal scientific meaning, a mixture mainly of ethane which ordinarily may contain some methane or propane". Although the 1989 ethane recovery data conform with this definition, the ethane reserve estimates are calculated on the basis of ethane product assumed to be 100 per cent ethane.

Ethane volumes are given in the standard unit of cubic metres of ethane liquid at equilibrium pressure and 15 degrees Celsius. However, in Table 5-1, ethane reserves are also given in cubic metres of ethane gas at 101.325 kilopascals and 15 degrees Celsius. A conversion factor of 0.003 55 cubic metres of ethane liquid per cubic metre of ethane gas is used.

5.1 ETHANE IN THE REMAINING ESTABLISHED RESERVES OF GAS

The Board has developed a computer file of compositional gas analyses, which has been used extensively in preparing the ethane reserve estimates in this section. Where a gas analysis was not available for a particular pool, a field or area average for the zone was used.

As shown in Table 5-1, the ethane content in liquified form of the total remaining established reserves of marketable gas is some 315 million cubic metres, some 205 million of which is in currently producing pools and the remaining 110 million in unconnected or deferred pools. Of the ethane content in unconnected pools, some 9.5 million cubic metres is in pools currently considered beyond economic reach and some 1.9 million in confidential pools. These reserves exclude volumes recoverable from solvent flood production.

The Board has also estimated the contribution to reserves of the ethane component of the solvent bank injected into several pools throughout the province to enhance oil recovery. Pool recovery factors based on Board studies were used to estimate the solvent bank recoverable from each pool. An evaluation of both the injected and reproduced solvent volumes has resulted in the Board's estimates of the ethane volume recoverable from solvent floods. The 1989 estimate of ethane "Recoverable from Solvent Floods" (as stated at the end of Table 5-1) excludes volumes contained in push gas as these volumes are included under the individual pool reserve estimates.

For individual gas pools, the ethane content of marketable gas in Alberta, with few exceptions, falls within the range of 0.0025 to 0.20 mole per mole. The 31 December 1989 volume-weighted average ethane content of all remaining established marketable gas is 0.054 mole per mole, as indicated in Table 5-1.

5.2 EXTRACTION OF SPECIFICATION ETHANE IN 1989

During 1989 there was a significant decrease in specification ethane extracted at several plants, partially offset by an increase in ethane extracted at the Petro-Canada Empress plant. Overall, the extraction of specification ethane decreased some 4.3 per cent from 7597 thousand cubic metres in 1988 to 7271 thousand cubic metres in 1989.

5.3 EXTRACTION OF ETHANE-PLUS PRODUCT IN 1989

The total provincial extraction of ethane plus for 1989 was 3206 thousand cubic metres with an estimated ethane content of approximately 0.79 mole per mole.

**TABLE 5-1 ETHANE IN THE REMAINING ESTABLISHED
RESERVES OF GAS
As at 31 December 1989**

Fields	1	2	3	4
	Remaining Established Reserves of Marketable Gas	Ethane Content ^a	Volume of Ethane	
	10 ⁶ m ³	mol/mol	10 ⁶ m ³ (gas)	10 ⁶ m ³ (liquid)
Major Fields				
Bonnie Glen	13 803	0.160	2 202	7.82
Brazeau River	26 782	0.082	2 202	7.82
Caroline	40 146	0.151	6 047	21.47
Cranberry	9 092	0.101	914	3.24
Elmworth	29 656	0.068	2 004	7.11
Garrington	10 228	0.096	980	3.48
Gilby	13 433	0.090	1 206	4.28
Harmattan East	14 061	0.086	1 216	4.32
Harmattan-Elkton	17 540	0.088	1 542	5.47
Jumping Pound West	28 141	0.041	1 155	4.10
Karr	10 032	0.084	843	2.99
Kaybob South	31 808	0.125	3 980	14.13
Leduc-Woodbend	11 757	0.124	1 463	5.19
Medicine River	10 947	0.099	1 089	3.87
Pembina	29 032	0.088	2 562	9.10
Rainbow	15 416	0.108	1 660	5.89
Ricinus	21 377	0.085	1 822	6.47
Sylvan Lake	13 269	0.097	1 283	4.55
Valhalla	11 629	0.082	955	3.39
Wapiti	18 825	0.065	1 219	4.33
Waterton	20 887	0.043	889	3.16
Westerose South	12 505	0.090	1 130	4.01
Willesden Green	13 886	0.102	1 418	5.03
Wizard Lake	7 713	0.119	915	3.25
Subtotal	431 965	0.094	40 696	144

TABLE 5-1 (continued)

Fields	1	2	3	4
	Remaining Established Reserves of Marketable Gas	Ethane Content ^a	Volume of Ethane	
	10 ⁶ m ³	mol/mol	10 ⁶ m ³ (gas)	10 ⁶ m ³ (liquid)
Fields with over 1.50 x 10 ⁹ m ³ of remaining established marketable gas but under 3.0 x 10 ⁶ m ³ of ethane reserves	926 532	0.039	36 562	130
Subtotal	1 358 497	0.057	77 258	274
All other remaining established reserves of marketable gas	291 230	0.040	11 593	41
Total	1 649 727	0.054	88 851	315
Recoverable from Solvent Flood			4 225	15
Provincial Total			93 076	330
			(3 304) ^b	(2 089) ^c

^a Volume-weighted average. In several fields, ethane is extracted at field plants such that the actual ethane content of marketable gas from these fields is substantially less than this calculated content.

^b Imperial equivalent in billions of cubic feet.

^c Imperial equivalent in millions of barrels.

6 RESERVES OF NATURAL GAS LIQUIDS

Natural gas liquids are defined in the Oil and Gas Conservation Act as "propane, butanes, or pentanes plus, or a combination of them, obtained from the processing of raw gas or condensate". For the purposes of this report, condensate recovered in stock tanks and marketed without processing is included in the reserves of pentanes plus. Also included in the pentanes plus category are higher-vapour-pressure products that contain substantial quantities of butanes recovered at several plants throughout the province.

6.1 PROVINCIAL SUMMARY

The Board estimates the remaining established reserves of natural gas liquids in the province as at 31 December 1989 to be 326 million cubic metres. During 1989, the Board made a major effort to improve data integrity in conjunction with the establishment of a computerized database. Although this data clean-up did not significantly affect the provincial reserves, it caused some minor variations in reserves associated with specific formations. Overall, the Board believes this year's estimates are an improvement over previous ones. Caution should be used in comparing the 1989 report with any pre-1989 reserve reports. The changes in the reserves during the past year are tabulated below:

	Established Reserves ^a			
	10 ⁶ m ³ (liquid)			
	Propane	Butanes	Pentanes Plus	Total
Remaining at 31 December 1988	124.2	73.0	129.0	326.2
Additions during 1989	11.2	3.3	0.9	15.4
Less net production ^b during 1989	6.0	3.2	6.4	15.6
Remaining at 31 December 1989	129.4	73.1	123.5	326.0
	(815.4) ^c	(460.5) ^c	(776.9) ^c	(2 052.8) ^c
Cumulative net production ^b to 31 December 1989	112.2	70.0	177.7	359.9
Initial established reserves at 31 December 1989	241.6	143.1	301.2	685.9
	(1 522.2) ^c	(901.2) ^c	(1 895.4) ^c	(4 318.9) ^c

^a Discrepancies are due to rounding.

^b Net production means production less those volumes returned to the formation or injected to enhance the recovery of oil.

^c Imperial equivalent in millions of barrels.

Also during 1989, propane and butanes recovery at crude-oil refineries was 333.6 and 543.0 thousand cubic metres, respectively. Although propane and butanes are potentially recoverable at other crude-oil refineries and from processing crude bitumen, the Board has not attempted to estimate the prospective reserves from those sources.

6.2 MAJOR CHANGES TO RECOVERABLE RESERVES OF NATURAL GAS LIQUIDS

During 1989, the Board re-evaluated the remaining established reserves of natural gas liquids associated with gas cycling pools. The most significant increases in the remaining established reserves of natural gas liquids occurred within the Caroline, Harmattan East, Karr, and Wembley fields because of the re-evaluation and addition to the initial established reserves of gas. The most significant decreases occurred in the Brazeau River, Ricinus, and Waterton fields because of the re-evaluation. The overall result was a net decrease in the remaining reserves of natural gas liquids, compared to 1988 levels as shown in the tabulation in Section 6.1.

6.3 DETERMINATION OF RECOVERABLE RESERVES OF NATURAL GAS LIQUIDS

The remaining established reserves of natural gas liquids consist of liquids that are expected to be extracted from the province's remaining established reserves of raw gas. The liquids recoverable from pools currently producing and connected to gas processing plants were generally determined using remaining recoverable raw-gas reserves, a raw-gas analysis, and the current plant recovery efficiency for each component. For retrograde condensate pools where dry gas is cycled, product recoveries have been determined from individual reservoir studies having regard for anticipated future cycling and blowdown operations.

For those pools not currently connected or on production, the Board estimated whether or not the gas would be processed for liquid recovery and, if so, the recovery efficiency for each component. This estimate was made on a broad judgement basis having regard for the gas composition in those pools. Confidential reserves and those considered beyond economic reach are included in the unconnected-reserve category.

The natural gas liquid reserves recoverable at reprocessing plants have been estimated by multiplying the remaining marketable gas reserves by the historic ratio of liquid production to marketable gas production. This assumes that both the liquid content of marketable gas and the portion of marketable gas to be reprocessed will remain constant. The Board believes that the approach gives a reasonable indication of the natural gas liquids recoverable at reprocessing plants.

The Board has also estimated the reserves of natural gas liquids being injected as solvent into several pools throughout the province to enhance oil recovery. Pool recovery factors based on Board studies were used to estimate the portion of such solvent recoverable from each pool. Plant recovery factors of 85 per cent for propane, 95 per cent for butanes, and 100 per cent for pentanes plus were then applied to the pool recoveries to determine the reserves of natural gas liquids recoverable from solvent-flood schemes. A re-evaluation of both the injected and reproduced solvent volumes has resulted in changes in the Board's estimates of volumes recoverable from solvent floods. The 1989 estimates of natural gas liquids "Recoverable from Solvent Floods" (as stated at the end of Table 6-1) exclude volumes contained in push gas as these volumes are included under the individual pool reserve estimates.

The following table shows the natural gas liquid reserves broken down into connected and unconnected categories. These reserves exclude volumes recoverable at reprocessing plants and from solvent-flood production.

Remaining Established Reserves As at 31 December 1989				
<hr/>				
10 ⁶ m ³ (liquid)				
	<u>Propane</u>	<u>Butanes</u>	<u>Pentanes Plus</u>	<u>Total</u>
Connected	44.7	33.4	82.3	160.4
Unconnected	31.1	17.5	31.7	80.3
Total	<u>75.8</u>	<u>50.9</u>	<u>114.0</u>	<u>240.7</u>

6.4 DISCUSSION OF RESERVES TABLE 6-1

The Board's current estimates of the remaining established reserves of natural gas liquids are detailed in Table 6-1. Fields containing 800 000 cubic metres or more of recoverable liquids are listed individually and those containing less are grouped under the "Beyond Economic Reach", "Confidential", and "Other Small Reserves" categories. Provincial reserves recoverable at reprocessing plants and from solvent-flood schemes are not included in the reserves for the individual pools but are shown as totals at the end of the table.

TABLE 6-1 REMAINING ESTABLISHED RESERVES OF NATURAL GAS LIQUIDS
As at 31 December 1989

Field	1 Zone	2 Remaining Reserves of Marketable Gas	3 4 5 Liquid Recovery Ratio			6 7 8 9 Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
			10 ⁶ m ³ m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
Ansell	Cardium	2 324	97	68	207	225	158	481	864
	Viking	470	111	57	102	52	27	48	127
	Mannville	2 017	40	35	70	81	70	142	293
	Jurassic	38	132	79	132	5	3	5	13
	Mississippian	412	87	24	12	36	10	5	51
	Subtotal					399	268	681	1 348
Bigoray	Mannville	2 294	85	47	101	195	107	231	533
	Jurassic	374	86	48	131	32	18	49	99
	Mississippian	490	104	57	96	51	28	47	126
	Winterburn	248	339	169	109	84	42	27	153
	Subtotal					362	195	354	911
Bonnie Glen	Cardium	94	255	170	138	24	16	13	53
	Mannville	930	103	49	40	96	46	37	179
	Winterburn	176	142	108	188	25	19	33	77
	Leduc ^a	12 562	—	—	—	1 524	777	1 706	4 007
	Subtotal					1 669	858	1 789	4 316
Brazeau River	Viking	3 146	71	36	149	224	112	468	804
	Jurassic	1 914	147	85	138	281	162	264	707
	Mississippian	11 255	—	—	63	—	—	713	713
	Winterburn ^a	10 467	—	—	—	1 259	1 008	5 551	7 818
	Subtotal					1 764	1 282	6 996	10 042
Caroline	Cardium	1 726	118	85	194	203	146	335	684
	Viking	1 469	72	50	122	106	73	179	358
	Mannville	14 657	83	67	194	1 222	977	2 838	5 037
	Jurassic	111	126	72	117	14	8	13	35
	Mississippian	1 036	46	48	158	48	50	164	262
	Leduc	140	114	86	150	16	12	21	49
	Beaverhill Lake	20 921	259	337	866	5 426	7 052	18 123	30 601
	Subtotal					7 035	8 318	21 673	37 026

TABLE 6-1 (continued)

Field	1 Zone	2 Remaining Reserves of Marketable Gas	3 4 5 Liquid Recovery Ratio			6 7 8 9 Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
			m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
			10 ⁶ m ³						
Carrot Creek	Cardium	369	65	46	111	24	17	41	82
	Mannville	1 907	123	93	125	234	177	239	650
	Jurassic	1 467	115	65	92	168	96	135	399
	Subtotal					426	290	415	1 131
Carstairs	Viking	159	101	44	63	16	7	10	33
	Mannville	277	191	97	108	53	27	30	110
	Mississippian ^a	2 732	—	—	—	244	179	357	780
	Subtotal					313	213	397	923
Clive	Viking	227	88	53	88	20	12	20	52
	Mannville	795	132	74	156	105	59	124	288
	Winterburn	571	170	130	112	97	74	64	235
	Leduc	792	220	250	241	174	198	191	563
	Subtotal					396	343	399	1 138
Cranberry	Beaverhill Lake	7 303	59	61	235	429	446	1 719	2 594
	Elk Point	553	—	—	76	—	—	42	42
	Subtotal					429	446	1 761	2 636
Crossfield	Viking	166	60	60	60	10	10	10	30
	Mannville	1 222	69	46	108	84	56	132	272
	Jurassic	90	122	67	133	11	6	12	29
	Mississippian ^a	6 920	—	—	—	628	439	868	1 935
	Wabamun	2 509	8	7	25	19	17	63	99
	Subtotal					752	528	1 085	2 365
Dunvegan	Triassic	225	62	36	62	14	8	14	36
	Mississippian	13 855	37	35	67	519	485	927	1 931
	Wabamun	283	92	60	117	26	17	33	76
	Subtotal					559	510	974	2 043
Edson	Cardium	1 044	88	68	170	92	71	178	341
	2nd White Specks	167	144	78	168	24	13	28	65
	Viking	2 209	17	7	48	37	15	107	159
	Mannville	2 723	92	53	119	251	143	323	717
	Jurassic	481	166	98	385	80	47	185	312
	Mississippian	6 992	—	—	33	—	—	231	231
	Subtotal					484	289	1 052	1 825

TABLE 6-1 (continued)

	1	2	3	4	5	6	7	8	9
Field	Zone	Remaining Reserves of Marketable Gas	Liquid Recovery Ratio			Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
		10 ⁶ m ³	m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
Elmworth	Cardium	541	128	63	72	69	34	39	142
	Cadotte	2 776	32	14	21	88	40	58	186
	Mannville	23 014	48	21	50	1 102	490	1 150	2 742
	Jurassic	1 710	4	2	27	6	3	47	56
	Triassic	1 006	117	68	153	118	68	154	340
	Subtotal					1 383	635	1 448	3 466
Ferrier	Belly River	252	127	56	36	32	14	9	55
	Cardium	4 739	113	72	183	536	343	866	1 745
	Viking	243	115	62	103	28	15	25	68
	Mannville	1 999	43	25	156	86	49	312	447
	Jurassic	78	128	64	90	10	5	7	22
	Mississippian	1 339	3	1	176	4	2	236	242
	Subtotal					696	428	1 455	2 579
Fir	Cardium	56	143	71	107	8	4	6	18
	Dunvegan	629	135	65	148	85	41	93	219
	Mannville	1 729	19	9	161	33	16	279	328
	Jurassic	473	—	—	359	—	—	170	170
	Triassic	4 645	6	4	26	30	19	121	170
	Mississippian	221	—	—	41	—	—	9	9
	Subtotal					156	80	678	914
Garrington	Cardium	191	204	115	283	39	22	54	115
	Viking	1 256	95	57	139	119	72	174	365
	Mannville	3 884	132	90	167	511	348	647	1 506
	Jurassic	590	124	75	210	73	44	124	241
	Mississippian	1 463	91	61	127	133	89	186	408
	Wabamun	1 358	131	98	169	178	133	229	540
	Leduc	1 486	117	68	212	174	101	315	590
Subtotal					1 227	809	1 729	3 765	
Ghost Pine	Viking	197	5	5	46	1	1	9	11
	Mannville	5 306	63	51	80	334	270	427	1 031
	Mississippian	672	33	22	95	22	15	64	101
	Subtotal					357	286	500	1 143

TABLE 6-1 (continued)

Field	1 Zone	2 Remaining Reserves of Marketable Gas	3 4 5 Liquid Recovery Ratio			6 7 8 9 Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
			m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
Gilby	Belly River	111	144	45	18	16	5	2	23
	Cardium	419	—	—	444	—	—	186	186
	Mannville	5 685	85	50	88	481	284	499	1 264
	Jurassic	4 711	69	43	77	325	202	361	888
	Mississippian	2 201	103	55	99	226	120	217	563
	Wabamun	52	135	58	58	7	3	3	13
	Subtotal					1 055	614	1 268	2 937
Gold Creek	Upper Cretaceous	62	81	32	48	5	2	3	10
	Mannville	1 422	76	34	74	108	48	105	261
	Triassic	309	155	129	139	48	40	43	131
	Wabamun	1 513	—	—	500	—	—	757	757
	Subtotal					161	90	908	1 159
Harmattan East	Viking	93	86	54	43	8	5	4	17
	Mannville	319	63	50	94	20	16	30	66
	Mississippian ^a	13 649	—	—	—	741	539	932	2 212
	Subtotal					769	560	966	2 295
Harmattan-Elkton	Mannville	59	119	68	85	7	4	5	16
	Mississippian ^a	17 372	—	—	—	459	391	1 063	1 913
	Subtotal					466	395	1 068	1 929
Hussar	Viking	1 041	24	13	28	25	14	29	68
	Basal Colorado	189	16	11	11	3	2	2	7
	Mannville	6 705	83	57	57	555	380	379	1 314
	Mississippian	53	94	57	38	5	3	2	10
	Subtotal					588	399	412	1 399
Judy Creek	Viking	219	5	5	87	1	1	19	21
	Beaverhill Lake	1 884	338	151	103	636	285	194	1 115
	Subtotal					637	286	213	1 136
Jumping Pound West	Mississippian	28 141	26	24	78	745	678	2 183	3 606
	Subtotal					745	678	2 183	3 606

TABLE 6-1 (continued)

Field	1 Zone	2 Remaining Reserves of Marketable Gas	3 4 5 Liquid Recovery Ratio			6 7 8 9 Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
			m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
Kaybob	Viking	286	91	49	77	26	14	22	62
	Mannville	6 652	32	22	32	211	147	214	572
	Beaverhill Lake ^a	2 456	—	—	—	339	268	492	1 099
	Subtotal					576	429	728	1 733
Kaybob South	Viking	517	58	29	31	30	15	16	61
	Mannville	7 193	23	12	52	165	85	371	621
	Jurassic	335	42	21	72	14	7	24	45
	Triassic	1 560	106	49	77	165	76	120	361
	Winterburn	1 181	147	129	177	174	152	209	535
	Beaverhill Lake ^a	20 985	—	—	—	1 273	1 092	3 821	6 186
	Subtotal					1 821	1 427	4 561	7 809
Karr	Upper Cretaceous	722	3	1	62	2	1	45	48
	Mannville	8 685	148	86	151	1 284	748	1 309	3 341
	Subtotal					1 286	749	1 354	3 389
Leduc-Woodbend	Cardium	137	80	36	15	11	5	2	18
	Viking	265	—	—	45	—	—	12	12
	Mannville	2 697	128	65	55	346	176	148	670
	Wabamun	880	114	61	45	100	54	40	194
	Winterburn	200	220	110	170	44	22	34	100
	Leduc	7 549	101	103	53	766	780	397	1 943
	Subtotal					1 267	1 037	633	2 937
McLeod	Cardium	411	71	49	85	29	20	35	84
	Mannville	3 111	116	78	129	361	243	401	1 005
	Jurassic	1 756	138	71	189	242	124	332	698
	Winterburn	533	81	47	39	43	25	21	89
	Beaverhill Lake	107	93	65	336	10	7	36	53
	Subtotal					685	419	825	1 929

TABLE 6-1 (continued)

Field	1 Zone	2	3 4 5			6	7	8	9
		Remaining Reserves of Marketable Gas	Liquid Recovery Ratio			Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
		10 ⁶ m ³	m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
Medicine River	Viking	40	175	100	100	7	4	4	15
	Mannville	6 050	118	61	68	714	370	412	1 496
	Jurassic	1 598	79	44	49	126	71	79	276
	Mississippian	2 752	123	70	91	339	194	250	783
	Leduc	426	251	176	263	107	75	112	294
	Subtotal					1 293	714	857	2 864
Minnehik-Buck Lake	Belly River	520	131	52	65	68	27	34	129
	Cardium	132	212	76	83	28	10	11	49
	Mannville	341	123	62	70	42	21	24	87
	Jurassic	731	18	10	78	13	7	57	77
	Mississippian	5 267	47	27	77	249	140	406	795
	Subtotal					400	205	532	1 137
Mitsue	Elk Point	1 452	482	296	152	700	430	221	1 351
	Subtotal					700	430	221	1 351
Moose	Mississippian	2 650	78	63	219	207	167	580	954
	Subtotal					207	167	580	954
Niton	Mannville	1 024	99	55	117	101	56	120	277
	Jurassic	4 749	41	28	131	195	133	622	950
	Subtotal					296	189	742	1 227
Paddle River	Mannville	299	114	80	311	34	24	93	151
	Jurassic	1 654	113	71	175	187	117	290	594
	Mississippian	895	105	55	85	94	49	76	219
	Subtotal					315	190	459	964

TABLE 6-1 (continued)

Field	Zone	2	3	4	5	6	7	8	9
		Remaining Reserves of Marketable Gas	Liquid Recovery Ratio			Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
		10 ⁶ m ³	m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
Peco	Belly River	434	101	48	108	44	21	47	112
	Cardium	185	108	54	97	20	10	18	48
	Viking	232	108	60	103	25	14	24	63
	Mannville	2 149	102	66	348	219	142	747	1 108
	Jurassic	1 207	120	58	59	145	70	71	286
	Winterburn	113	18	18	71	2	2	8	12
	Subtotal					455	259	915	1 629
Pembina	Belly River	4 305	70	51	110	300	221	475	996
	Cardium	9 629	204	101	87	1 963	977	834	3 774
	Viking	548	135	62	42	74	34	23	131
	Mannville	6 248	102	57	72	636	359	452	1 447
	Jurassic	2 624	103	51	86	270	135	226	631
	Mississippian	1 384	109	80	97	151	111	134	396
	Winterburn	4 294	267	122	68	1 148	524	291	1 963
	Subtotal					4 542	2 361	2 435	9 338
Progress	Triassic	5 414	87	58	117	470	315	634	1 419
	Subtotal					470	315	634	1 419
Quirk Creek	Mississippian	2 962	82	62	142	243	184	422	849
	Subtotal					243	184	422	849
Rainbow	Mannville	2 799	9	6	6	26	16	16	58
	Slave Point	798	120	73	83	96	58	66	220
	Sulphur Point	1 290	88	53	95	113	68	123	304
	Muskeg	617	201	115	99	124	71	61	256
	Keg River	9 854	239	126	146	2 352	1 245	1 443	5 040
	Subtotal					2 711	1 458	1 709	5 878
Rainbow South	Sulphur Point	731	16	11	52	12	8	38	58
	Muskeg	963	171	97	84	165	93	81	339
	Keg River	1 538	225	134	142	346	206	219	771
	Subtotal					523	307	338	1 168
Ricinus	Cardium ^a	14 559	—	—	—	936	562	753	2 251
	Viking	4 054	47	24	64	190	98	261	549
	Mannville	60	83	50	50	5	3	3	11
	Winterburn	250	96	108	84	24	27	21	72
	Leduc	2 340	—	—	2	—	—	5	5
	Subtotal					1 155	690	1 043	2 888

TABLE 6-1 (continued)

Field	1 Zone	2	3	4	5	6	7	8	9
		Remaining Reserves of Marketable Gas	Liquid Recovery Ratio			Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
		10 ⁶ m ³	m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
Shekilie	Slave Point	527	6	4	8	3	2	4	9
	Sulphur Point	578	111	73	116	64	42	67	173
	Muskeg	162	99	62	105	16	10	17	43
	Elk Point	21	190	143	143	4	3	3	10
	Keg River	2 006	202	121	118	405	243	236	884
	Subtotal					492	300	327	1 119
Strachan	Cardium	165	164	97	152	27	16	25	68
	Mannville	1 615	24	10	66	39	16	106	161
	Jurassic	78	115	51	13	9	4	1	14
	Leduc	3 895	54	50	206	212	195	802	1 209
	Subtotal					287	231	934	1 452
Swan Hills	Beaverhill Lake	2 196	694	425	232	1 524	933	510	2 967
	Subtotal					1 524	933	510	2 967
Swan Hills South	Beaverhill Lake	912	691	457	293	630	417	267	1 314
	Subtotal					630	417	267	1 314
Sylvan Lake	Viking	257	128	82	113	33	21	29	83
	Mannville	7 116	107	64	95	763	458	679	1 900
	Jurassic	1 909	108	69	101	206	132	192	530
	Mississippian	2 804	73	46	81	206	129	228	563
	Leduc	1 055	116	92	206	122	97	217	436
	Subtotal					1 330	837	1 345	3 512
Twining	Viking	800	41	21	35	33	17	28	78
	Mannville	1 209	74	54	62	89	65	75	229
	Mississippian	5 939	47	49	54	280	289	319	888
	Subtotal					402	371	422	1 195

TABLE 6-1 (continued)

	1	2	3	4	5	6	7	8	9
Field	Zone	Remaining Reserves of Marketable Gas	Liquid Recovery Ratio			Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
		10 ⁶ m ³	m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
Valhalla	Doe Creek	2 706	11	5	37	31	14	100	145
	Mannville	1 780	47	21	34	84	37	61	182
	Jurassic	56	107	54	71	6	3	4	13
	Triassic ^a	6 614	—	—	—	1 142	585	2 286	4 013
	Subtotal					1 263	639	2 451	4 353
Virginia Hills	Mannville	287	10	3	38	3	1	11	15
	Mississippian	268	75	82	71	20	22	19	61
	Beaverhill Lake	1 260	448	213	120	564	269	151	984
	Subtotal					587	292	181	1 060
Waterton	Cardium	140	114	57	136	16	8	19	43
	Mannville	274	77	36	47	21	10	13	44
	Mississippian ^a	18 266	—	—	—	886	773	2 290	3 949
	Subtotal					923	791	2 322	4 036
Wembley	Upper Cretaceous	338	89	38	27	30	13	9	52
	Triassic ^a	7 637	—	—	—	1 245	609	2 260	4 114
	Subtotal					1 275	622	2 269	4 166
Westerose	Mannville	2 435	136	71	103	332	172	251	755
	Mississippian	130	146	77	169	19	10	22	51
	Winterburn	69	145	116	203	10	8	14	32
	Leduc ^a	3 295	—	—	—	536	362	440	1 338
	Subtotal					897	552	727	2 176
Westerose South	Mannville	11 790	150	78	94	1 771	916	1 111	3 798
	Mississippian	375	136	67	91	51	25	34	110
	Wabamun	288	—	—	56	—	—	16	16
	Leduc ^a	52	—	—	—	8	6	14	28
	Subtotal					1 830	947	1 175	3 952
Westpem	Mannville	698	162	93	56	113	65	39	217
	Jurassic	146	137	75	123	20	11	18	49
	Winterburn ^a	2 452	—	—	—	500	309	323	1 132
	Subtotal					633	385	380	1 398

TABLE 6-1 (continued)

Field	1 Zone	2 Remaining Reserves of Marketable Gas	3 4 5 Liquid Recovery Ratio			6 7 8 9 Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
			m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
			10 ⁶ m ³						
Willesden Green	Belly River	1 771	120	76	69	212	134	122	468
	Cardium	3 105	96	73	102	297	227	317	841
	Viking	638	168	96	103	107	61	66	234
	Mannville	7 236	138	77	169	1 002	557	1 224	2 783
	Jurassic	736	148	86	149	109	63	110	282
	Mississippian	400	118	65	105	47	26	42	115
	Subtotal					1 774	1 068	1 881	4 723
Wilson Creek	Belly River	550	67	42	64	37	23	35	95
	Mannville	1 985	114	63	107	226	125	212	563
	Jurassic	92	76	43	98	7	4	9	20
	Mississippian	2 600	78	46	104	203	119	271	593
	Subtotal					473	271	527	1 271
Wizard Lake	Mannville	244	70	33	57	17	8	14	39
	Winterburn	15	200	133	67	3	2	1	6
	Leduc	7 402	346	199	60	2 561	1 473	444	4 478
	Subtotal					2 581	1 483	459	4 523
Zama	Slave Point	1 248	6	4	47	7	5	59	71
	Sulphur Point	3 554	86	62	80	304	221	286	811
	Muskeg	48	188	104	104	9	5	5	19
	Elk Point	166	72	42	66	12	7	11	30
	Keg River	627	142	81	97	89	51	61	201
	Subtotal					421	289	422	1 132
Subtotal						59 095	40 758	85 991	185 844

TABLE 6-1 (continued)

	1	2	3	4	5	6	7	8	9
Field	Zone	Remaining Reserves of Marketable Gas	Liquid Recovery Ratio			Remaining Established Reserves of Natural Gas Liquids			
			Propane	Butanes	Pentanes Plus	Propane	Butanes	Pentanes Plus	Total
		10 ⁶ m ³	m ³ /10 ⁶ m ³ of marketable gas			10 ³ m ³			
Reserves Beyond Economic Reach						1 575	907	3 074	5 556
Confidential Reserves						304	167	613	1 084
Other Small Reserves						14 749	9 071	24 416	48 236
Subtotal						75 723	50 903	114 094	240 720
Recoverable at Reprocessing Plants						49 330	19 650	8 090	77 070
Recoverable from Solvent Floods						4 368	2 574	1 266	8 208
Total Reserves						129 421	73 127	123 450	325 998
						(815.4) ^b	(460.5) ^b	(776.9) ^b	(2 052.8) ^b

^a Includes gas cycling pool. Gas reserves calculated on an energy basis. See Table 4-2. Liquid recovery ratios are not included because of those parameters changing with time.

^b Imperial equivalent in millions of barrels.



7 RESERVES OF SULPHUR

7.1 PROVINCIAL SUMMARY

The Board estimates the remaining established reserves of elemental sulphur in the province as at 31 December 1989 to be some 108 million tonnes. The changes in sulphur reserves during the past year are as follows:

	Established Sulphur Reserves from Natural Gas	Established^a Sulphur Reserves from Crude Bitumen	Total Established Sulphur Reserves
	10 ⁶ t	10 ⁶ t	10 ⁶ t
Remaining at 31 December 1988	88.0	14.4	102.4
Additions during 1989	7.3	3.2 ^c	10.5
Production during 1989	4.7	0.5	5.2
Remaining at 31 December 1989	90.6 (89.2) ^b	17.1 (16.8) ^b	107.7 (106.0) ^b
Cumulative net production to 31 December 1989	128.9	4.6	133.5
Initial established reserves at 31 December 1989	219.5 (216.1) ^b	21.7 (21.3) ^b	241.2 (237.4) ^b

^a Recoverable reserves of elemental sulphur under active development at Suncor and Syncrude plants.

^b Imperial equivalent in millions of long tons.

^c Additions are due to improved sulphur recovery technology at plants.

7.2 SULPHUR FROM NATURAL GAS

Of the cumulative net production of 128.9 million tonnes at year-end 1989, some 4.1 million were stockpiled at various gas plants in the province. Over the years, stockpiling reflected a lack of markets for a portion of the production and, in part, a shortage of slating, loading, and transportation facilities and limited ocean-terminal storage capacity. However, with improved sulphur markets, producers have reduced their stockpiles to meet the increase in demand. Consequently, the sulphur stockpiled at year-end 1989 was some 0.5 million tonnes less than at year-end 1988.

The Board's estimates of remaining established reserves of sulphur recoverable from gas have been prepared by applying the appropriate hydrogen sulphide (H₂S) content and sulphur recovery efficiency to the remaining established reserves of raw gas in each pool. Where sulphur is currently being recovered, historical recovery efficiencies have been used. Where sulphur recovery is anticipated from gas reserves not yet being produced, the recovery efficiency has been estimated on the basis of the minimum sulphur recovery efficiency guidelines published in the Board's Informational Letter IL 88-13. The remaining established reserves of sulphur for cycling schemes were determined from a detailed assessment of each pool and, because the H₂S content in the gas changes with time, only the remaining reserves are reported.

Of the 90.6 million tonnes of remaining sulphur recoverable from gas, some 74.9 million are in currently producing pools and the remaining 15.7 million are in unconnected pools. The unconnected reserves include some 7.0 million tonnes in pools considered beyond economic reach.

The Board's reserve estimates are shown in Table 7-1. Fields containing 800 000 tonnes or more of recoverable sulphur are listed individually and those containing less are grouped under "Other Small Reserves". The remaining established reserves of sulphur for 1989 have increased sufficiently to offset production as a result of the re-evaluation of reserves in the Coleman and Waterton fields.

7.3 SULPHUR FROM CRUDE BITUMEN

Crude bitumen in oil sands deposits contains significant amounts of sulphur. As a result of current Alberta upgrading operations, in which crude bitumen is converted to synthetic crude oil, an average of 88 per cent of the sulphur contained in the crude bitumen is either recovered in the form of elemental sulphur or remains in products including coke.

It is currently estimated that some 210 million tonnes of elemental sulphur will be recoverable from the 5.2 billion cubic metres of remaining established crude bitumen reserves in the surface-mineable area. These sulphur reserves were estimated by multiplying the remaining established reserves of crude bitumen by a factor of 40.5 tonnes per thousand cubic metres of crude bitumen. This ratio has been revised from previous estimates to reflect both current operations and the expected use of high conversion, hydrogen addition upgrading technologies for the future development of surface-mineable crude bitumen reserves. Hydrogen addition technology yields a higher elemental sulphur production than does an alternative carbon rejection technology, as a larger percentage of the sulphur in the bitumen remains in upgrading residues as opposed to being converted to H_2S .

7.4 SULPHUR FROM CRUDE BITUMEN RESERVES UNDER ACTIVE DEVELOPMENT

Only a portion of the surface-mineable established crude bitumen reserves are under active development at the approved Suncor and Syncrude projects. The Board has increased its estimates of the initial established reserves of elemental sulphur for the Suncor and Syncrude projects to 21.7 million tonnes, of which 4.6 million tonnes of elemental sulphur had been produced, leaving a remaining established reserve of 17.1 million tonnes. The change in the initial and remaining established reserves is primarily reflective of improved sulphur recovery operations at both plants and the addition of a hydrogen addition upgrading unit at the Syncrude facility. During 1989, a total of 481 824 tonnes of elemental sulphur were produced at the Suncor and Syncrude projects.

The changes in established sulphur reserves during 1989 are summarized in section 7.1.

TABLE 7-1 REMAINING ESTABLISHED RESERVES OF SULPHUR
As at 31 December 1989

Field	1 Zone	2 Remaining Established Reserves of Raw Gas 10 ⁶ m ³	3 H ₂ S Content ^a mol/mol	4 Recovery Efficiency ^b percentage	5 Remaining Established Reserves of Sulphur 10 ³ tonnes
Blackstone	Beaverhill Lake	15 639	0.107	99	<u>2 250</u>
	Subtotal				<u>2 250</u>
Brazeau River	Mississippian	12 051	0.010	95	158
	Nisku ^c	—	—	—	<u>2 673</u>
	Subtotal				<u>2 831</u>
Burnt Timber	Mississippian	7 119	0.078	96	720
	Wabamun	1 764	0.304	96	<u>698</u>
	Subtotal				<u>1 418</u>
Caroline	Mississippian	739	0.038	95	36
	Nisku ^d	246	0.519	100 ^e	173
	Leduc ^d	2 265	0.831	100 ^e	2 548
	Beaverhill Lake	46 491	0.365	100 ^e	<u>23 001</u>
	Subtotal				<u>25 758</u>
Coleman	Mississippian	5 391	0.279	97	1 978
	Wabamun	1 767	0.272	97	<u>648</u>
	Subtotal				<u>2 626</u>
Crossfield	Mannville	797	0.008	99	9
	Mississippian	7 697	0.007	99	69
	Wabamun	5 225	0.318	99	<u>2 227</u>
	Subtotal				<u>2 305</u>
Crossfield East	Wabamun	5 456	0.347	99	<u>2 538</u>
	Subtotal				<u>2 538</u>
Fir	Triassic	4 792	0.013	98	83
	Leduc	4 848	0.127	97	<u>808</u>
	Subtotal				<u>891</u>
Hanlan	Nisku	371	0.052	99	26
	Beaverhill Lake	24 920	0.091	99	<u>3 048</u>
	Subtotal				<u>3 074</u>
Jumping Pound West	Mississippian	34 983	0.065	97	<u>2 979</u>
	Subtotal				<u>2 979</u>
Kaybob South	Triassic	1 742	0.006	98	14
	Nisku	1 200	0.190	98	303
	Beaverhill Lake ^c	—	—	—	<u>2 963</u>
	Subtotal				<u>3 280</u>

TABLE 7-1 (continued)

Field	1 Zone	2 Remaining Established Reserves of Raw Gas 10 ⁶ m ³	3 H ₂ S Content ^a mol/mol	4 Recovery Efficiency ^b percentage	5 Remaining Established Reserves of Sulphur 10 ³ tonnes
Limestone	Mississippian	8 229	0.051	99	567
	Wabamun	3 958	0.164	99	873
	Nisku	477	0.175	99	112
	Leduc	1 320	0.177	99	<u>314</u>
	Subtotal				<u>1 866</u>
Moose	Mississippian	3 473	0.108	99	504
	Wabamun	1 523	0.452	97	<u>905</u>
	Subtotal				<u>1 409</u>
Obed	Nisku	3 982	0.241	98	1 273
	Leduc	1 818	0.313	98	<u>757</u>
	Subtotal				<u>2 030</u>
Okotoks	Mississippian	220	0.021	95	6
	Wabamun	4 939	0.343	99	<u>2 271</u>
	Subtotal				<u>2 277</u>
Panther River	Mississippian	3 294	0.084	99 ^e	372
	Wabamun ^d	883	0.684	99 ^e	811
	Nisku ^d	476	0.704	99 ^e	<u>450</u>
	Subtotal				<u>1 633</u>
Pine Creek	Jurassic	2 836	0.002	96	6
	Mississippian	180	0.026	96	6
	Wabamun	3 208	0.289	98	1 232
	Leduc	815	0.261	98	<u>283</u>
	Subtotal				<u>1 527</u>
Ricinus	Nisku	683	0.317	96	282
	Leduc	4 026	0.306	99	<u>1 653</u>
	Subtotal				<u>1 935</u>
Ricinus West	Leduc	6 298	0.332	99	<u>2 807</u>
	Subtotal				<u>2 807</u>
Waterton	Mississippian	17 520	0.219	99	5 161
	Wabamun	2 834	0.157	96	579
	Rundle-Wabamun ^c	—	—	—	<u>2 905</u>
	Subtotal				<u>8 645</u>

TABLE 7-1 (continued)

Field	1 Zone	2 Remaining Established Reserves of Raw Gas 10 ⁶ m ³	3 H ₂ S Content ^a mol/mol	4 Recovery Efficiency ^b percentage	5 Remaining Established Reserves of Sulphur 10 ³ tonnes
Windfall	Mannville	6	0.129	95	1
	Mississippian	413	0.033	98	18
	Nisku	790	0.176	98	185
	Leduc ^c	—	—	—	822
	Subtotal				<u>1 026</u>
Subtotal					<u>75 105</u>
Other Small Reserves					15 496
Total Reserves					<u>90 601</u>
					(89 170) ^f

^a Volume-weighted average.

^b All recovery efficiencies are rounded to the nearest whole percentage.

^c Includes gas-cycling pool. Gas reserves calculated on an energy basis. See Table 4-2. H₂S content is not included because of gas composition changing with time.

^d Currently considered beyond economic reach.

^e Recovery efficiencies are rounded but consistent with report ERCB-AE 88-AA, Sulphur Recovery Guidelines for Sour Gas Plants in Alberta.

^f Imperial equivalent in thousands of long tons.



8 ULTIMATE POTENTIAL

8.1 CONVENTIONAL CRUDE OIL

The Board updated ERCB Report 88-E¹ in early 1990 and provided a forecast of Alberta oil supply from all sources for the period 1990 to 2005. The ultimate potential of crude oil and equivalent remains unchanged from ERCB Report 88-E at 2905 million cubic metres.

The Board estimates that future reserves growth from new discoveries/additions will add some 323 million cubic metres to the existing light-medium established reserves and some 93 million cubic metres to existing heavy crude established reserves. These values are consistent with the ERCB Report 88-E medium projection for Alberta's geological potential. An additional 186 million and 50 million cubic metres of light-medium and heavy crude oil reserves, respectively, are predicted to be recovered by the application of future tertiary recovery schemes. The resulting ultimate potential from all conventional crude oil sources remains unchanged at 2905 million cubic metres. The current relationship between the initial and remaining ultimate potential of conventional crude oil is illustrated below:

	<u>10⁶ m³</u>
Initial Established	2 253
Cumulative Production	<u>1 693</u>
Remaining Established	560
Yet to Be Established	652
Ultimate Potential	<u>2 905</u>
Remaining Ultimate Potential	1 212

Net annual additions to Alberta's initial established crude oil reserves averaged 78 million cubic metres from 1951 to 1970, falling to 26 million from 1971 to 1985. Net additions have averaged about 32 million cubic metres for the past 4 years (Table 8-1, column 1). It is emphasized that these are net values, after reassessment of existing reserves.

The updated forecast of additions from all sources is shown in Figure 8-1. The Board projects total reserves additions for light-medium and heavy crude oil of 22 million cubic metres and 10 million cubic metres, respectively, in 1990. Past 1994, the level of discoveries/additions declines as geological opportunities diminish. In both the light-medium and heavy crude oil categories, the discoveries/additions are only slightly augmented by tertiary recovery programs over the period 1990 to 2005.

¹ Energy Resources Conservation Board, 1988. Alberta Oil Supply, 1988-2003. ERCB Report 88-E.

**TABLE 8-1 SUMMARY OF INITIAL AND REMAINING
ESTABLISHED RESERVES OF CONVENTIONAL CRUDE OIL**
As of Each Year-end
millions of cubic metres

Year	1	2	3	4	5
	Initial Established		Production		Remaining Established
	Addition	Cumulative ^a	Annual	Cumulative ^a	
1951	44.5	219.3	7.3	29.4	189.9
1952	62.5	281.7	9.3	38.8	243.0
1953	66.6	348.3	12.2	51.0	297.3
1954	55.6	403.9	13.9	65.0	339.0
1955	68.2	472.1	17.9	82.8	389.3
1956	82.0	554.1	22.8	105.7	448.4
1957	39.9	594.0	21.7	127.4	466.6
1958	1.4	595.4	17.9	145.2	450.2
1959	67.5	663.0	20.5	165.7	497.2
1960	48.6	711.6	20.7	186.6	525.0
1961	57.5	769.1	25.1	211.5	557.6
1962	44.0	813.5	26.2	237.9	575.6
1963	56.6	870.0	26.8	264.6	605.4
1964	348.5	1 218.5	27.9	292.4	926.1
1965	68.8	1 287.3	29.2	321.6	965.7
1966	140.8	1 428.1	32.2	353.9	1 074.2
1967	95.2	1 523.3	36.6	390.4	1 132.9
1968	119.8	1 643.1	39.8	430.3	1 212.8
1969	54.5	1 697.6	44.4	474.7	1 222.8
1970	36.7	1 734.3	51.7	526.5	1 207.9
1971	22.1	1 756.4	56.4	582.9	1 173.6
1972	20.0	1 776.5	67.4	650.0	1 126.0
1973	9.2	1 785.7	83.3	733.7	1 052.0
1974	38.5	1 824.1	79.0	812.7	1 011.5
1975	7.0	1 831.1	67.5	880.2	950.9
1976	-18.6	1 812.5	61.0	941.2	871.3
1977	19.1	1 831.6	60.4	1 001.6	830.0
1978	24.4	1 856.0	60.0	1 061.6	794.5
1979	34.3	1 890.3	68.5	1 130.1	760.2
1980	22.7	1 913.2	63.2	1 193.3	719.9
1981	32.6	1 945.8	56.5	1 249.8	696.0
1982	6.9	1 952.7	53.6	1 303.4	649.4
1983	64.1	2 016.8	55.6	1 359.0	657.8
1984	42.0	2 058.8	59.2	1 418.2	640.7
1985	64.0	2 122.8	56.2	1 474.5	648.5
1986	39.1	2 162.0	53.2	1 527.7	634.7
1987	33.0	2 195.0	53.9	1 581.6	613.8
1988	36.7	2 231.7	57.2	1 638.8	592.9
1989	21.4	2 253.1	53.8	1 692.6	560.5
		(14.2) ^b			(3.5) ^b

^a Discrepancies are due to rounding.

^b Imperial equivalent in billions of stock-tank barrels.

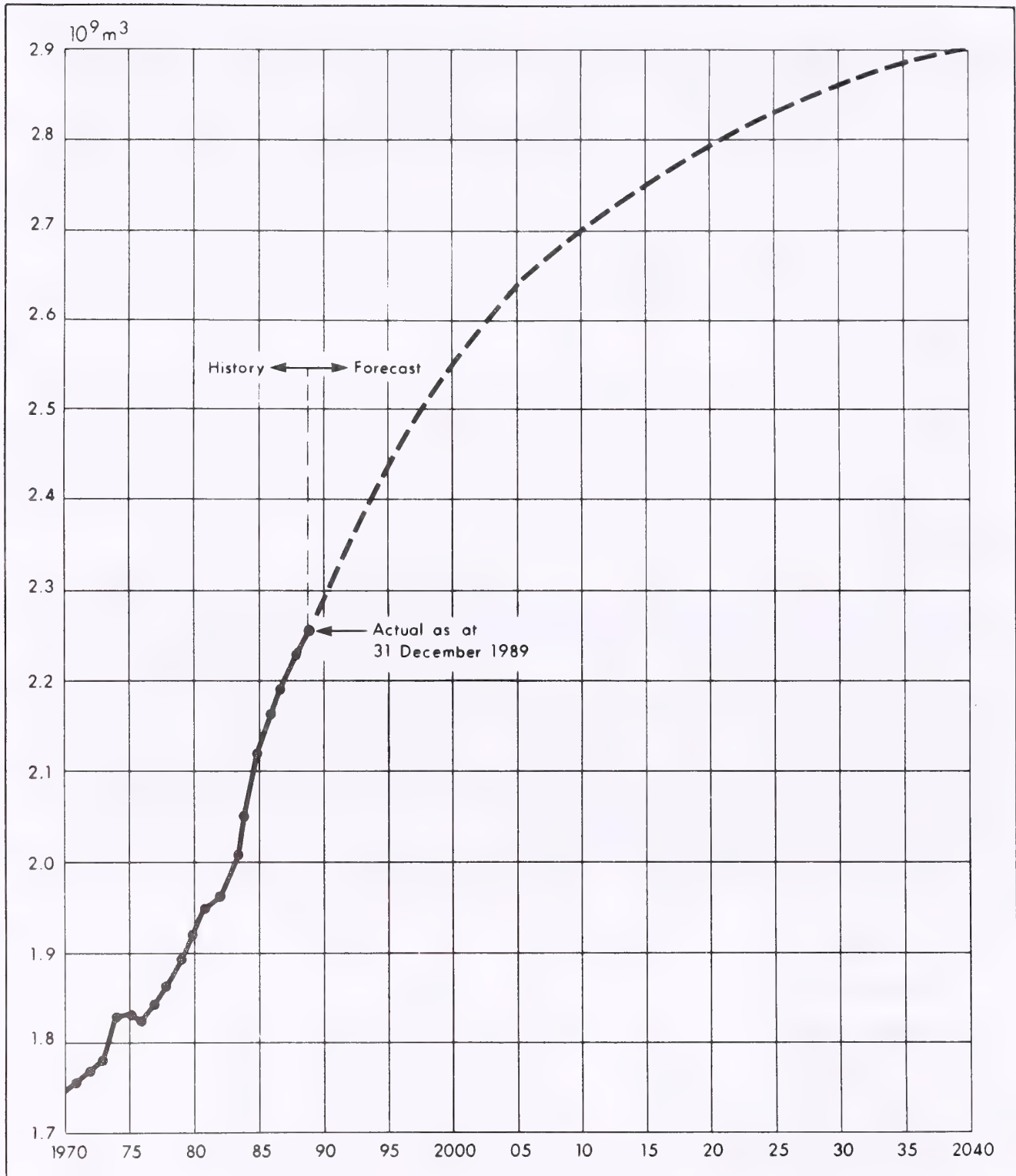


FIGURE 8-1 FORECAST GROWTH OF INITIAL ESTABLISHED RESERVES OF CONVENTIONAL CRUDE OIL

8.2 CRUDE BITUMEN AND SYNTHETIC CRUDE OIL

The Board estimates the ultimate volume of crude bitumen in place to be 400 billion cubic metres, consisting of about 24 billion in deposits that may eventually be amenable to surface mining, and the remainder in deeper deposits that will require the use of in situ recovery or underground mining techniques.

Although drilling and log analyses have indicated the potential ultimate volume of crude bitumen in place to be some 400 billion cubic metres, knowledge of quality variations and those effects on recovery potential are still very limited. In addition, for some deposits, particularly carbonates, little experimentation has been carried out to establish the expected recovery factor for this type of resource. For these reasons, those portions of the in-place volumes for the Cretaceous sand and Paleozoic carbonate deposits, which will require the use of in situ recovery methods, were broken down into established and probable categories, and different recovery factors were applied to each category in establishing the ultimate potential of crude bitumen for the in situ areas. The recovery factors selected reflect the Board's current broad knowledge respecting the quality of the in-place reserves, the amount of experimentation done to date to establish recovery techniques, and a projection of improvements in those techniques in the future.

The analysis suggested the ultimate potential of crude bitumen from Cretaceous sediments by in situ recovery methods to be some 33 billion cubic metres and from the carbonate sediments some 6 billion cubic metres. About 10 billion cubic metres are expected from within the surface-mineable boundary and represent the initial mineable volume in place after accounting for losses in mining and extraction and quantities inaccessible in environmental buffer zone areas. For current projects, it is also assumed that tailings ponds and discard sites will either be located on non-mineable areas or will be removed from the mineable areas in order to recover underlying economic mineable ore. The total initial ultimate potential amount of crude bitumen recoverable is therefore about 49 billion cubic metres.

The yield of synthetic crude oil (including butanes and heavier liquid product) from crude bitumen will vary with the upgrading technology used. Also, it will depend upon the extent to which external energy sources such as coal and natural gas are used to satisfy fuel requirements. The Board has revised the estimates of liquid yield expected from the upgrading and now considers an average yield factor of 1.0 cubic metres per cubic metre by volume can be achieved through the use of high conversion hydrogen addition upgrading technologies. However, in terms of ultimate synthetic crude oil reserves, hydrogen requirements would be extremely large, far exceeding estimated amounts that might be available by steam reforming of natural gas. Therefore, alternative sources of hydrogen such as from partial oxidation using coal, coke, or pitch residuum would have to be considered. Also, it is assumed that coal and natural gas may supply part of the fuel needs. On these assumptions, the ultimate potential amount of synthetic crude oil recoverable is estimated at 49 billion cubic metres with 10 billion attributable to surface mining and 39 billion to the in situ areas.

The relationship between the initial and remaining ultimate potential of crude bitumen is illustrated below:

	<u>10⁶ m³</u>
Initial Established	742
Cumulative Production	<u>200</u>
Remaining Established	542
Yet to Be Established	48 258
Ultimate Potential	<u>49 000</u>
Remaining Ultimate Potential	48 800

8.3 MARKETABLE GAS

The Board continues to be optimistic with respect to Alberta's ultimate potential for gas despite some significant reserve reductions made in recent years to a very large number of small gas pools and some large pools. The Board believes that the ultimate potential for gas is in the range of 4200 to 5600 billion cubic metres, and for forecasting and administrative purposes, uses an estimate of 4800 billion cubic metres.

The relationship between the ultimate potential of marketable gas and the portion remaining to be recovered is illustrated below:

	<u>10⁹ m³</u> at 37.4 MJ/m ³
Initial Established	3 293
Cumulative Production	<u>1 595</u>
Remaining Established	1 698
Yet to Be Established	1 507
Ultimate Potential	<u>4 800</u>
Remaining Ultimate Potential	3 205

The Board plans to conduct a detailed re-study of Alberta's ultimate potential for gas and co-products commencing in 1990.

Annual additions to established gas reserves averaged 78.3 billion cubic metres during the period 1951 to 1989 (Table 8-2, column 1). Reserve additions have fluctuated a great deal during this period because of changes in economic factors such as gas price, market opportunities, and drilling incentive programs, and also because of annual revisions of estimates of existing reserves.

The historical growth in booked reserves as shown in Figure 8-2 is, in the recent past, lower than during the late 1970s and early 1980s. However, the decrease may be exaggerated by downward adjustments of reserve estimates to correct for previous overestimates occurring historically.

The forecast of growth in initial established reserves shown in Figure 8-2 reflects the increase in the Board's estimate of ultimate potential to 4800 billion cubic metres. The Board anticipates that the reserves growth rate will increase to about 100 billion cubic metres per year by the mid-1990s and then gradually decline as opportunities for new discoveries diminish. While fluctuations in reserves growth during the forecast period will undoubtedly occur, the Board believes its forecast represents a reasonable scenario for use in forecasting and policy formulation.

**TABLE 8-2 SUMMARY OF INITIAL AND REMAINING
ESTABLISHED RESERVES OF MARKETABLE GAS
As of Each Year-end
billions of cubic metres**

Year	1	2	3	4	5	6
	Initial Established		Production		Remaining Established ^a	
	Additions	Cumulative ^a	Annual	Cumulative ^a	Actual ^a	37.4 MJ/m ³
1951	61.2	205.5	1.6	19.4	186.1	*
1952	87.8	293.4	1.8	21.2	272.1	*
1953	76.1	369.5	2.0	23.3	346.2	*
1954	58.8	428.3	2.5	25.8	402.5	*
1955	59.3	487.6	3.0	28.8	458.8	*
1956	64.5	552.2	3.2	32.0	520.1	*
1957	64.9	617.1	3.8	35.8	581.7	*
1958	110.4	727.5	5.3	41.1	686.4	721.2
1959	88.5	816.0	7.1	48.2	767.8	809.8
1960	119.9	935.9	9.1	57.4	878.6	926.8
1961	13.3	949.2	11.9	69.3	879.9	930.5
1962	49.7	998.9	17.6	86.9	912.1	964.2
1963	35.8	1 034.7	19.6	106.5	928.2	980.0
1964	85.9	1 120.6	22.1	128.6	992.0	1 052.6
1965	89.7	1 210.4	24.2	152.8	1 057.6	1 129.6
1966	40.6	1 251.0	25.5	178.3	1 072.6	1 142.5
1967	73.9	1 324.9	27.5	205.8	1 119.1	1 189.6
1968	134.6	1 459.5	30.0	235.8	1 223.6	1 289.0
1969	87.5	1 547.0	37.8	273.6	1 273.4	1 342.6
1970	46.2	1 593.2	40.1	313.8	1 279.4	1 352.0
1971	45.4	1 638.6	48.5	362.3	1 276.3	1 346.9
1972	45.2	1 683.9	52.4	414.7	1 269.1	1 337.6
1973	183.3	1 867.2	56.0	470.7	1 396.6	1 464.5
1974	147.0	2 014.3	57.0	527.8	1 486.5	1 550.2
1975	20.8	2 035.1	56.6	584.3	1 450.8	1 512.8
1976	105.6	2 140.7	54.6	639.0	1 501.7	1 563.9
1977	127.6	2 268.2	61.0	700.0	1 568.3	1 630.3
1978	163.3	2 431.6	66.4	766.3	1 665.2	1 730.9
1979	123.2	2 554.7	70.0	836.4	1 718.4	1 783.1
1980	92.4	2 647.1	63.8	900.2	1 747.0	1 812.1
1981	117.0	2 764.1	68.6	968.8	1 795.3	1 864.8
1982	118.7	2 882.8	60.9	1 029.7	1 853.1	1 924.6
1983	39.0	2 921.8	66.0	1 095.6	1 826.2	1 898.7
1984	40.5	2 962.3	68.3	1 163.9	1 798.4	1 872.2
1985	42.6	3 004.9	72.8	1 236.7	1 768.3	1 840.0
1986	21.8	3 026.7	69.9	1 306.6	1 720.1	1 790.3
1987	0.0	3 026.7	68.4	1 375.0	1 651.7	1 713.7
1988	64.6	3 091.3	88.6	1 463.5	1 627.7	1 673.7
1989	107.8	3 199.0	85.8	1 549.3	1 649.7	1 698.2
		(113.5) ^b			(58.6) ^b	(60.3) ^b

^a Discrepancies are due to rounding.

^b Imperial equivalent in trillions of cubic feet.

* Not available.

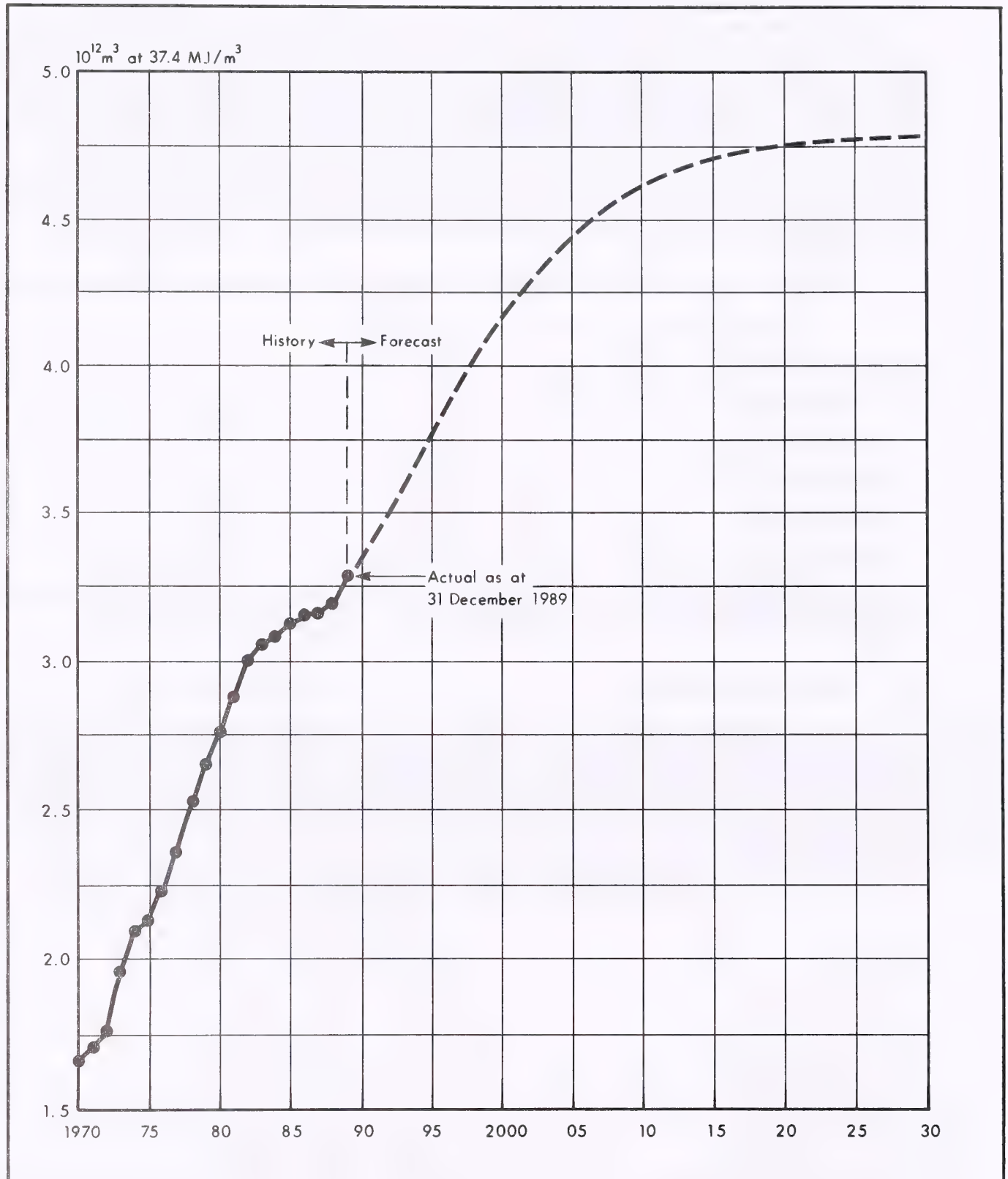


FIGURE 8-2 FORECAST GROWTH OF INITIAL ESTABLISHED RESERVES OF MARKETABLE GAS

8.4 ETHANE

The Board has adopted a new methodology for use in determining the co-product (ethane, natural gas liquids, and sulphur) content of future gas discoveries. The province is divided into areas which are geologically similar and within which the gas reserves established to date are a significant portion of those likely to be found in future. The co-product content of the gas found to date is calculated for each area and it is assumed that future discoveries in each of the areas will have co-product contents similar to the established reserves. In this manner the average co-product content of all future gas reserves is calculated.

The Board estimates that the ethane content of marketable gas yet to be established will be 190 cubic metres of ethane liquid per million cubic metres of marketable gas. The Board's estimate of ultimate potential for ethane is derived by applying this ethane-to-gas ratio to its estimate of marketable gas yet to be established and adding the initial established reserves of ethane.

The reserves, production, and ultimate potential for the ethane contained in marketable gas are shown below:

	<u>10⁶ m³ (liquid)</u>
Initial Established	605.4
Cumulative Production	<u>275.4</u>
Remaining Established	330.0
Yet to Be Established	274.6
Ultimate Potential	<u>880.0</u>
Remaining Ultimate Potential	604.6

The Board estimates that at least 65 per cent of the ethane contained in the remaining ultimate potential of marketable gas could be practically and economically recovered.

8.5 NATURAL GAS LIQUIDS

Utilizing the methodology described in Section 8.4, the Board estimates that the propane, butanes, and pentanes plus contents of marketable gas yet to be established will be 75, 45, and 85 cubic metres (liquid) per million cubic metres of marketable gas, respectively. The Board's estimate of ultimate potential for natural gas liquids is derived by applying these liquid-to-gas ratios to its estimate of marketable gas yet to be established and adding the initial established reserves of natural gas liquids.

The reserves, production, and ultimate potential of natural gas liquids are shown below:

	Propane	Butanes	Pentanes Plus
	<u>10⁶ m³ (liquid)</u>		
Initial Established	241.6	143.1	301.2
Cumulative Production	<u>112.2</u>	<u>70.0</u>	<u>177.7</u>
Remaining Established	129.4	73.1	123.5
Yet to Be Established	98.4	66.9	128.8
Ultimate Potential	<u>340.0</u>	<u>210.0</u>	<u>430.0</u>
Remaining Ultimate Potential	227.8	140.0	252.3

8.6 SULPHUR

8.6.1 Sulphur from Gas

Utilizing the methodology described in Section 8.4, the Board estimates that the sulphur content of marketable gas yet to be established will be 70 tonnes per million cubic metres of marketable gas. The Board's estimate of ultimate potential for sulphur is derived by applying this sulphur-to-gas ratio to its estimate of marketable gas yet to be established and adding the initial established reserves of sulphur.

In addition to the sulphur recoverable from "conventional" gas, there is also sulphur potentially recoverable from ultra-high H₂S pools. The Board's estimate of the ultimate potential for sulphur from ultra-high H₂S pools is 40 million tonnes.

The reserves, production, and ultimate potential for sulphur are shown below:

	Conventional	Ultra-high H ₂ S	Total
	10 ⁶ tonnes		
Initial Established	215.8	3.7	219.5
Cumulative Production	<u>128.9</u>	<u>0.0</u>	<u>128.9</u>
Remaining Established	86.9	3.7	90.6
Yet to Be Established	104.2	36.3	140.5
Ultimate Potential	<u>320.0</u>	<u>40.0</u>	<u>360.0</u>
Remaining Ultimate Potential	191.1	40.0	231.1

8.6.2 Sulphur from Crude Bitumen

The Board estimates the ultimate potential of sulphur in Alberta's recoverable crude bitumen to be some 2200 million tonnes at year-end in 1989. This estimate was derived by applying a recovery ratio of 45.8 tonnes of sulphur per thousand cubic metres of bitumen to the 1989 year-end ultimate potential of crude bitumen of some 49 billion cubic metres. The recovery ratio has been revised to reflect the use of high conversion hydrogen addition technologies for upgrading the crude bitumen. Such technologies result in a higher sulphur recovery than do the alternative carbon rejection technologies because more of the sulphur in the bitumen is converted to H₂S as opposed to being left in the upgrading residues. The ratio reflects the recovery expected at future plants. Some 4.6 million of the 2200 million tonnes expected have been produced to the 1989 year-end.



APPENDIX OIL, CRUDE BITUMEN, AND GAS DRILLING AND RESERVE GROWTH HISTORICAL DATA

This appendix presents historical data on the development of the oil and gas industry in Alberta and the annual additions to established reserves of crude oil, crude bitumen, and marketable gas to year-end 1989.

The text describing the data in Tables A-4 and A-5 should be considered carefully to avoid misinterpretation.

TABLE A-1

From 1951 to 1989 inclusive, 77 per cent of the development wells drilled in Alberta resulted in discoveries of oil or gas compared to only 40 per cent for exploratory wells¹. A few unsuccessful development wells were completed as water disposal and service wells.

Counts of crude bitumen wells have been tabulated from 1980 onward. Two types of crude bitumen development wells are shown, "commercial" for those in commercial projects (including the Lindbergh Area), and "experimental" for those in recovery-test schemes. Experimental wells are included in the development category because they are drilled into known oil sands deposits. Experimental well counts are not available prior to 1980. Up to 1983, commercial crude bitumen wells appear in the table in the oil well count.

Most of the crude bitumen exploratory wells are oil sands evaluation wells which are required to be abandoned and cannot become producers. Also included are some exploratory wells licensed to obtain crude bitumen production. Oil sands evaluation wells also do not appear in any form in the table for the period prior to 1980.

During 1989, overall development and exploratory drilling was at its lowest level since 1975, being some 37 per cent less than in 1988 and some 33 per cent less than the average for the last ten years. Gas exploratory drilling increased by some 17 per cent over 1988, but all other categories decreased from the previous year.

TABLE A-2

A somewhat better measure of exploratory and development activity is the distance drilled annually in each category. Since 1966, these data have been further categorized to also show the number of kilometres drilled for successful oil and gas wells. The information in Table A-2 is thus closely related to that in Table A-1.

¹ For the purposes of Tables A-1 and A-2, exploratory wells include deep pool tests, new pool wildcats, and new field wildcats. Outpost wells have been included in the development well totals.

TABLE A-1 DEVELOPMENT AND EXPLORATORY WELLS
number drilled annually, 1951-1989

	1	2	3	4	5
Year	Development				Total ^a
	Successful				
	Oil	Crude Bitumen		Gas	
		Commercial	Experimental		
1951	691	**	*	21	777
1952	897	**	*	80	1 160
1953	838	**	*	106	1 162
1954	613	**	*	85	827
1955	1 100	**	*	68	1 281
1956	1 317	**	*	79	1 514
1957	818	**	*	73	1 020
1958	924	**	*	164	1 315
1959	834	**	*	164	1 170
1960	944	**	*	184	1 363
1961	741	**	*	231	1 188
1962	653	**	*	190	1 113
1963	803	**	*	186	1 255
1964	796	**	*	173	1 281
1965	843	**	*	155	1 366
1966	552	**	*	188	1 003
1967	506	**	*	190	953
1968	387	**	*	257	970
1969	324	**	*	311	901
1970	246	**	*	425	884
1971	269	**	*	489	1 085
1972	454	**	*	738	1 618
1973	480	**	*	961	1 970
1974	566	**	*	1 284	2 241
1975	597	**	*	1 443	2 408
1976	444	**	*	2 096	2 959
1977	530	**	*	1 941	2 813
1978	726	**	*	2 134	3 269
1979	984	**	*	2 352	3 892
1980	1 296	**	139	2 855	4 888
1981	1 107	**	173	2 173	4 006
1982	1 246	**	234	1 901	3 862
1983	1 907	**	268	836	3 457
1984	1 983	438	365	994	4 496
1985	2 343	980	270	1 694	6 288
1986	1 465	194	93	804	3 298
1987	1 865	377	144	712	3 865
1988	1 950	660	60	1 105	4 812
1989	995	38	28	823	2 451

^a Includes unsuccessful, service, and suspended wells.

^b Includes oil sands evaluation wells and exploratory wells licensed to obtain crude bitumen production.

* Not available.

** Included in Oil.

6	7	8	9	10	11	12	13
Exploratory				Total			
Successful			Total ^a	Successful			Total ^a
Oil	Crude Bitumen ^b	Gas		Oil	Crude Bitumen	Gas	
68	*	94	461	759	*	115	1 238
49	*	74	469	946	*	154	1 629
47	*	89	399	885	*	195	1 561
60	*	55	351	673	*	140	1 178
45	*	70	346	1 145	*	138	1 627
51	*	59	384	1 368	*	138	1 898
56	*	52	428	874	*	125	1 448
35	*	63	404	959	*	227	1 719
43	*	78	432	877	*	242	1 602
41	*	92	403	985	*	276	1 766
42	*	113	423	783	*	344	1 611
35	*	82	484	688	*	272	1 597
65	*	89	502	868	*	275	1 757
65	*	90	570	861	*	263	1 851
76	*	85	705	919	*	240	2 071
62	*	69	634	614	*	257	1 637
135	*	84	693	641	*	274	1 646
162	*	130	936	549	*	387	1 906
138	*	122	972	462	*	433	1 873
55	*	183	963	301	*	608	1 847
93	*	202	940	362	*	691	2 025
55	*	252	1 058	509	*	990	2 676
101	*	413	1 543	581	*	1 374	3 513
69	*	384	1 248	635	*	1 668	3 489
67	*	428	1 238	664	*	1 871	3 646
108	*	1 005	2 082	552	*	3 101	5 041
172	*	1 011	2 317	702	*	2 952	5 130
218	*	956	2 304	944	*	3 090	5 573
266	*	825	1 888	1 250	*	3 177	5 780
310	354	1 040	2 653	1 606	*	3 895	7 541
318	857	883	2 865	1 425	*	3 056	6 871
317	221	510	1 719	1 563	*	2 411	5 581
335	68	255	1 245	2 242	*	1 091	4 702
407	126	278	1 661	2 390	929	1 272	6 157
436	588	238	2 175	2 779	1 838	1 932	8 463
271	168	167	1 199	1 736	455	971	4 497
300	105	217	1 305	2 165	626	929	5 170
322	277	374	1 793	2 272	997	1 479	6 605
247	245	437	1 678	1 242	311	1 260	4 129

TABLE A-2 DEVELOPMENT AND EXPLORATORY WELLS
kilometres drilled annually, 1951-1989

	1	2	3	4	5
Year	Development				Total ^a
	Successful				
	Oil	Crude Bitumen		Gas	
		Commercial	Experimental		
1951	*	**	*	*	1 001
1952	*	**	*	*	1 453
1953	*	**	*	*	1 394
1954	*	**	*	*	1 176
1955	*	**	*	*	1 972
1956	*	**	*	*	2 411
1957	*	**	*	*	1 553
1958	*	**	*	*	1 842
1959	*	**	*	*	1 969
1960	*	**	*	*	2 426
1961	*	**	*	*	2 385
1962	*	**	*	*	2 032
1963	*	**	*	*	2 266
1964	*	**	*	*	2 235
1965	*	**	*	*	2 142
1966	921	**	*	79	1 567
1967	748	**	*	219	1 420
1968	539	**	*	391	1 360
1969	464	**	*	408	1 254
1970	347	**	*	448	1 107
1971	352	**	*	406	1 219
1972	636	**	*	547	1 669
1973	692	**	*	800	2 204
1974	749	**	*	907	2 237
1975	714	**	*	1 159	2 340
1976	593	**	*	1 173	2 983
1977	720	**	*	1 624	2 961
1978	995	**	*	1 691	3 408
1979	1 452	**	*	1 936	4 141
1980	1 839	**	80	2 557	5 309
1981	1 401	**	85	1 934	4 169
1982	1 804	**	103	1 521	4 116
1983	2 482	**	112	896	4 248
1984	2 935	257	203	999	5 603
1985	3 302	579	155	1 443	7 353
1986	2 200	117	47	850	4 550
1987	2 627	209	80	883	5 252
1988	2 555	376	38	1 249	6 081
1989	1 259	24	17	851	3 339

^a Includes unsuccessful, service, and suspended wells.

^b Includes oil sands evaluation wells and exploratory wells licensed to obtain crude bitumen production.

^c Discrepancies are due to rounding.

* Not available.

** Included in Oil.

6	7	8	9	10	11	12	13
Exploratory				Total			
Successful				Successful			
Oil	Crude Bitumen ^b	Gas	Total ^a	Oil	Crude Bitumen	Gas	Total ^a
*	*	*	694	*	*	*	1 696
*	*	*	568	*	*	*	2 021
*	*	*	564	*	*	*	1 958
*	*	*	554	*	*	*	1 730
*	*	*	601	*	*	*	2 574
*	*	*	665	*	*	*	3 077
*	*	*	724	*	*	*	2 278
*	*	*	712	*	*	*	2 554
*	*	*	725	*	*	*	2 694
*	*	*	737	*	*	*	3 163
*	*	*	724	*	*	*	3 109
*	*	*	744	*	*	*	2 776
*	*	*	723	*	*	*	2 989
*	*	*	917	*	*	*	3 152
*	*	*	1 038	*	*	*	3 180
95	*	107	958	1 016	*	84	2 526
208	*	95	996	957	*	314	2 416
244	*	198	1 386	783	*	589	2 746
206	*	164	1 410	670	*	572	2 667
83	*	208	1 295	431	*	656	2 402
126	*	218	1 227	477	*	624	2 446
83	*	280	1 402	719	*	828	3 071
112	*	404	1 650	805	*	1 204	3 854
92	*	410	1 419	841	*	1 318	3 655
87	*	423	1 309	801	*	1 582	3 649
139	*	846	1 892	732	*	2 619	4 875
178	*	1 016	2 288	897	*	2 640	5 250
300	*	1 219	2 718	1 295	*	2 910	6 126
450	*	1 256	2 771	1 902	*	3 192	6 912
494	71	1 550	3 261	2 333	151	4 107	8 570
473	124	1 202	2 810	1 874	209	3 136	6 979
493	27	603	1 920	2 297	130	2 124	6 036
472	11	338	1 528	2 954	123	1 234	5 776
511	19	362	1 846	3 446	479	1 361	7 449
584	96	300	1 975	3 886	829 ^c	1 743	9 328
341	39	209	1 286	2 541	203	1 059	5 836
382	16	277	1 476	3 010 ^c	305	1 160	6 728
373	65	414	1 797	2 928	479	1 663	7 877
300	32	482	1 623	1 558	74	1 332	4 963

TABLE A-3

In Table A-3, a completion event is counted as a well. Therefore, because some wellbores have more than one completion event, this table does not represent the actual number of wellbores in existence in each category listed.

Table A-3 shows the growth in the number of oil and gas wells operated. It excludes wells formerly capable but now abandoned.

The capable-oil-well count includes a number of shut-in wells that are contained in approved production spacing units and enhanced-recovery schemes. Some pools have been substantially depleted since the production spacing units were established, and many of the wells included would now produce little or no oil if placed back on production. The capable-well count may therefore imply a greater capability than actually exists.

Although the capped wells shown in column 5 have not been completed, many could be capable of production on short notice. In most cases, wells are capped until gathering or processing facilities are completed or the economics of production and marketing improves.

TABLE A-3 COMPLETED AND CAPPED WELLS
cumulative totals, 1951-1989

Year	1	2	3	4	5
	Oil Wells Completed		Gas Wells Completed		Capped Gas Wells ^c
	Capable ^a	Operated ^b	Capable ^a	Operated ^b	
1951	2 731	2 510	331	185	157
1952	3 661	3 312	362	245	259
1953	4 504	4 000	404	272	393
1954	5 063	4 583	470	314	491
1955	6 135	5 509	489	347	609
1956	7 390	6 743	523	368	713
1957	8 016	7 136	585	422	766
1958	8 536	7 811	705	575	871
1959	9 217	8 281	830	681	981
1960	9 878	8 633	950	758	1 127
1961	10 529	8 938	1 088	894	1 314
1962	10 809	9 183	1 257	995	1 388
1963	11 437	9 217	1 437	1 213	1 466
1964	12 114	9 613	1 628	1 372	1 497
1965	12 771	8 736	1 800	1 502	1 515
1966	13 162	8 886	1 921	1 527	1 586
1967	13 473	9 116	2 065	1 647	1 666
1968	13 733	9 114	2 356	1 924	1 594
1969	13 897	9 381	2 692	2 194	1 601
1970	13 971	9 383	3 010	2 490	1 684
1971	14 065	9 467	3 426	2 830	1 801
1972	14 168	9 689	3 985	3 318	2 063
1973	14 368	10 028	4 536	3 769	2 551
1974	14 819	10 395	5 344	4 508	3 469
1975	15 177	10 708	6 670	5 704	3 935
1976	15 663	11 166	9 010	7 753	4 864
1977	16 224	11 592	12 529	10 806	6 023
1978	16 871	12 151	14 897	12 785	6 686
1979	17 673	12 805	17 173	14 760	8 268
1980	18 833	13 312	19 546	16 661	10 094
1981	20 072	14 243	22 611	18 797	11 593
1982	21 345	15 259	25 400	20 611	10 991
1983	23 182	16 694	27 125	21 881	10 835
1984	25 320	18 406	29 037	22 839	10 793
1985	27 830	19 957	30 255	24 424	10 957
1986	30 020	20 175	32 619	24 648	11 201
1987	31 929	22 347	33 570	25 453	11 292
1988	34 048	22 893	34 235	27 167	11 447
1989	36 890	24 139	35 431	27 051	11 551

^a Includes wells which had been placed on production and were either operated, suspended, or shut in during December of each year, including crude bitumen wells, but excludes events used for injection.

^b The number of events produced during December of each year.

^c The number of events drilled and never placed on production and reported by the operator as capped as of 31 December of each year.

TABLE A-4

Table A-4 supplements Table 8-1 and subdivides the annual additions to established reserves of conventional crude oil into new discovery, re-evaluation, and enhanced-recovery categories. The method of subdividing the reserves has varied somewhat over the years; hence, some minor differences in annual additions may result from the change in method. Starting in 1985, the figures have been revised such that development applies only to step out drilling in existing primary pools. As a result, what was previously considered as development of enhanced-recovery schemes is now included under "Enhanced Recovery" rather than "Development and Re-evaluation".

The established reserves attributed to new discoveries are subject to significant adjustment as the result of delineation drilling and performance in subsequent years. The trend in such adjustments has varied over the years. In the 1950s, adjustments were largely additions, whereas in the 1960s and 1970s, when pinnacle reefs were a popular exploratory target, many adjustments were negative.

The enhanced-recovery programs for crude oil pools lead to positive increments initially, but adjustments may be necessary later when performance proves that the reserves assigned have been over- or under-estimated.

TABLE A-4 ADDITIONS TO ESTABLISHED RESERVES OF CONVENTIONAL CRUDE OIL
1951-1989
millions of cubic metres

Year	1 New Discoveries (Initial Year)	2 Development and Re-evaluation	3 Enhanced Recovery	4 Total
1951	15.3	29.2		44.5
1952	14.0	48.5		62.5
1953	24.2	42.4		66.6
1954	1.9	53.7		55.6
1955	9.4	58.8		68.2
1956	3.5	78.5		82.0
1957	10.8	29.1		39.9
1958	1.3	-4.8	4.9	1.4
1959	14.3	37.2	16.0	67.5
1960	0.5	29.9	18.1	48.6
1961	1.7	31.5	24.5	57.5
1962	2.9	21.8	19.9	44.0
1963	14.6	12.6	29.2	56.6
1964	9.5	88.2	250.8	348.5
1965	28.6	42.6	-2.4	68.8
1966	89.1	13.5	38.3	140.8
1967	57.2	15.7	22.2	95.2
1968	62.0	14.8	42.9	119.8
1969	40.5	-44.5	58.5	54.5
1970	8.4	-7.6	36.1	36.7
1971	14.0	8.7	-0.8	22.1
1972	10.8	-5.6	14.8	20.0
1973	5.1	-6.0	10.2	9.2
1974	4.3	3.3	30.8	38.5
1975	1.6	2.1	3.3	7.0
1976	2.5	5.9	-27.0	-18.6
1977	4.8	5.1	9.2	19.1
1978	24.9	-1.9	1.4	24.4
1979	19.2	10.3	4.8	34.3
1980	9.0	5.1	8.6	22.7
1981	15.0	7.2	10.4	32.6
1982	16.8	-16.5	6.6	6.9
1983	21.4	24.8	17.9	64.1
1984	29.1	-12.0	24.1	41.2
1985	32.7	9.7 (10.6) ^b	21.6	64.0
1986	28.6	-14.1 (16.6) ^b	24.6	39.1
1987	20.9	1.6 (12.8) ^b	10.5	33.0
1988	17.7	2.5 (18.2) ^b	16.5	36.7 ^a
1989	17.0	-3.4 (12.9) ^b	7.8	21.4 ^a

^a Discrepancies are due to rounding.

^b Development component only.

TABLE A-5

Table A-5 shows annual changes to established marketable gas reserves. Reserves are continually reviewed and re-evaluated, principally on the basis of new data and performance.

For the years prior to 1978, the new discovery total includes only those reserves having initial established reserves of marketable gas equal to or greater than 300 million cubic metres.

Commencing in 1979 the new discoveries which are not booked in the year of discovery but in the following year are not accounted for under new discoveries. This effect may lead to a substantial understatement in the discoveries column and an overstatement in the development column. Occasionally, the reverse might be true where established reserves classified as new discoveries in a given year later prove to be extensions of earlier discoveries and the pools are coalesced.

In view of the above, the distribution of reserves between new discoveries and development should be used with caution.

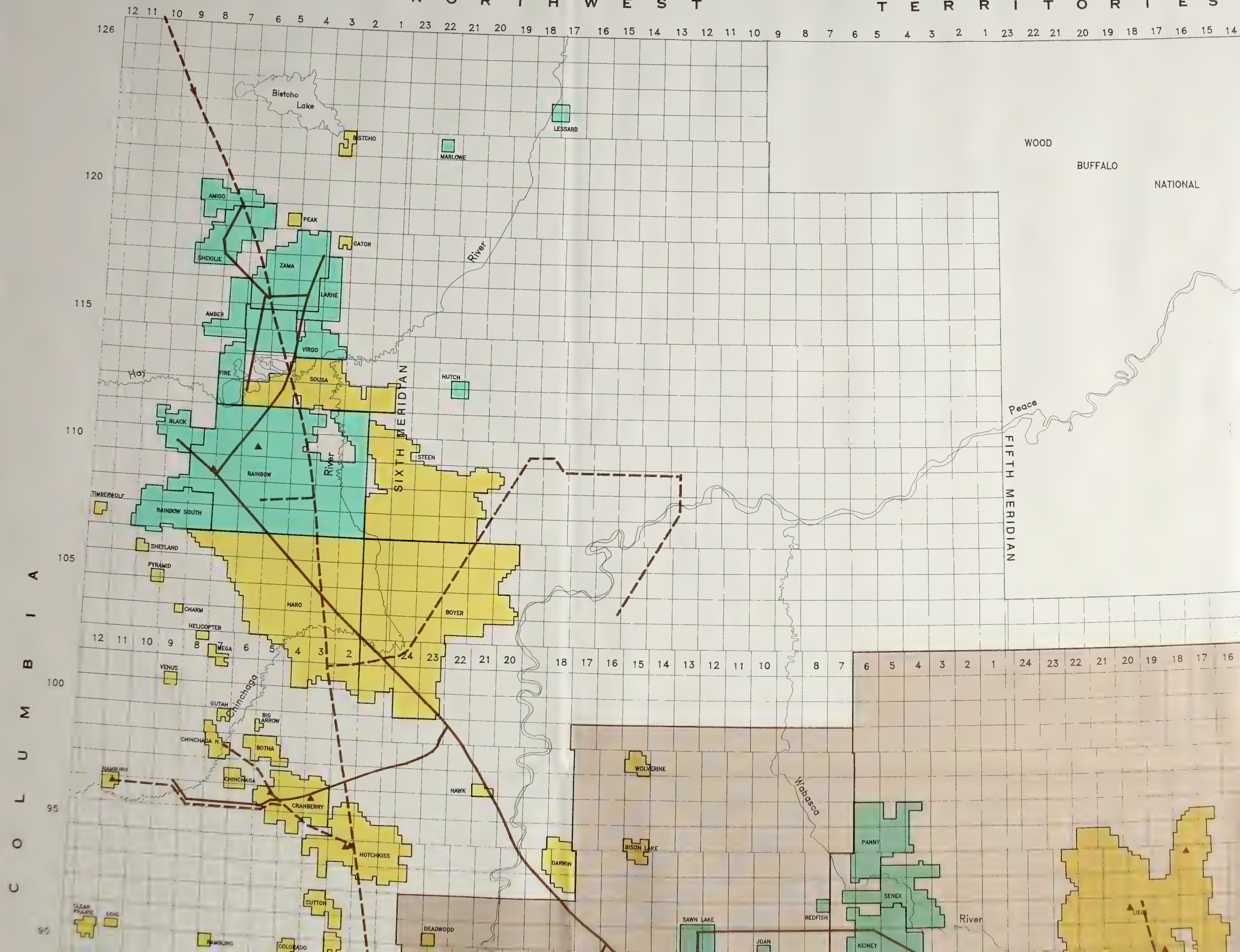
TABLE A-5 ADDITIONS TO ESTABLISHED RESERVES OF MARKETABLE GAS
1951-1989
billions of cubic metres

Year	1 New Discoveries (Initial Year)	2 Development and Re-evaluation	3 Total
1951	6.2	55.0	61.2
1952	*	*	87.8
1953	*	*	76.1
1954	*	*	58.8
1955	*	*	59.3
1956	*	*	64.5
1957	*	*	64.9
1958	*	*	110.4
1959	*	*	88.5
1960	18.2	101.7	119.9
1961	9.6	3.7	13.3
1962	8.7	41.0	49.7
1963	3.1	32.7	35.8
1964	7.2	78.7	85.9
1965	11.3	78.4	89.7
1966	2.1	38.6	40.7
1967	24.3	49.6	73.9
1968	15.3	119.3	134.6
1969	18.6	68.9	87.5
1970	7.6	38.7	46.2
1971	4.8	40.6	45.4
1972	12.5	32.8	45.2
1973	7.8	175.6	183.4
1974	8.6	138.4	147.0
1975	0.8	20.0	20.8
1976	6.9	98.7	105.6
1977	6.6	120.9	127.6
1978	24.4	138.9	163.3
1979	16.4	106.8	123.2
1980	30.0	62.5	92.4 ^a
1981	28.9	88.1	117.0
1982	10.6	108.1	118.7
1983	16.3	22.7	39.0
1984	9.6	30.9	40.5
1985	11.5	31.1	42.6
1986	9.2	12.6	21.8
1987	8.9	-8.9	0.0
1988	13.9	50.7	64.6
1989	19.0	88.8	107.8

^a Discrepancies are due to rounding.

* Not available.

TERRITORIES



T H W E S T

T E R R I T O R I E S

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2

LESSARD

WOOD

BUFFALO

NATIONAL

PARK

Slope

River

River

Peace

FIFTH MERIDIAN

Lake

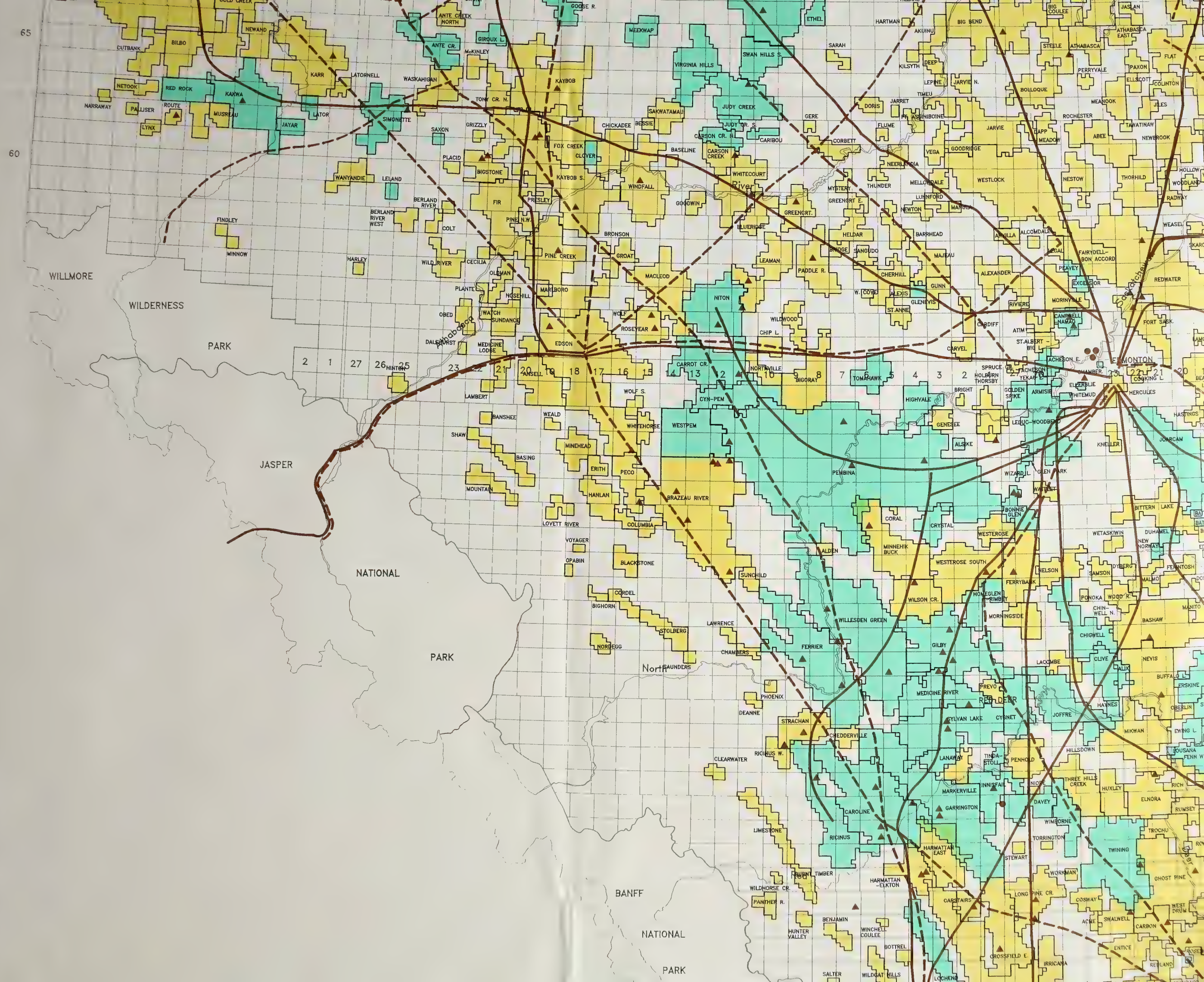
Claire

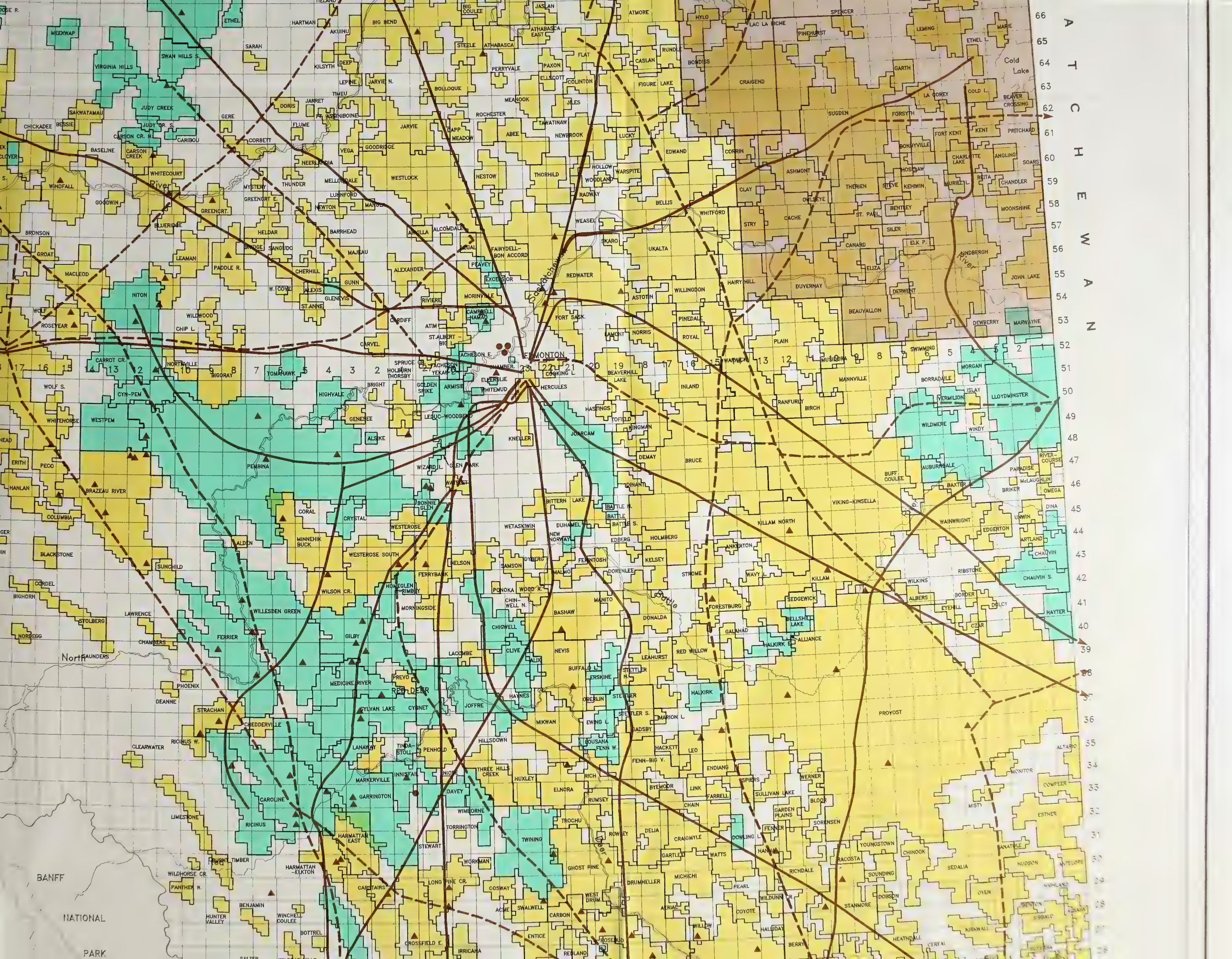
Lake
Athabasca

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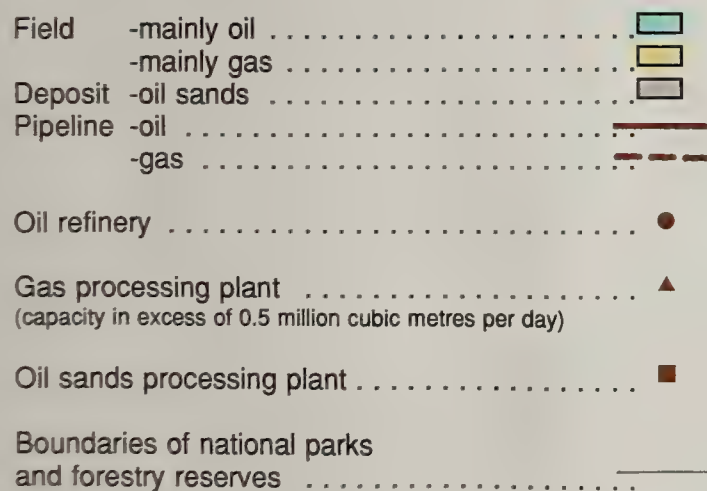








**DESIGNATED OIL AND GAS FIELDS,
OIL SAND DEPOSITS*, MAIN PIPELINES,
REFINERIES AND GAS PROCESSING PLANTS
31 DECEMBER 1989
ALBERTA, CANADA**



*The Board's estimates of the reserves of the pools in the fields and deposits are published in the ERCB 90-18 report.

Note: Certain information has been deleted in congested areas.

